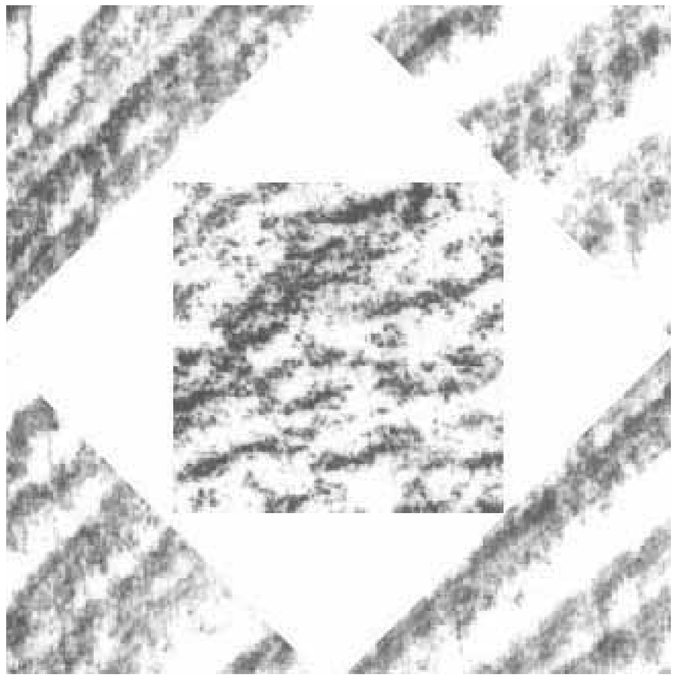

SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE
ST. GEORGE, UTAH

State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538-3018

GENERAL ABBREVIATIONS

ACT.	ACCOUSTIC CEILING TILE	EXIST.	EXISTING
ALT.	ALTERNATE	EQ.	EQUAL
ALUM.	ALUMINUM	EQUIP.	EQUIPMENT
A.B.	ANCHOR BOLT	EXIST.	EXISTING
&	AND	EXP.	EXPANSION
ARCH.	ARCHITECTURAL	EXT.	EXTERIOR
@	AT OR AT THE		
		FIN.	FINISH
BM.	BEAM	F.A.	FIRE ALARM
BLK.	BLOCK	F.E.	FIRE EXTINGUISER
BLKG.	BLOCKING	F.E.C.	F.E. CABINET
BD.	BOARD	FLR./FL.	FLOOR
BOT.	BOTTOM	F.D.	FLOOR DRAIN
BLDG.	BUILDING	F.O.S.	FACE OF STUD
		F.O.W.	FACE OF WALL
CPT.	CARPET	FTG.	FOOTING
CLKG.	CAULKING	FDN.	FOUNDATION
C.I.	CAST IRON	F.F.	FINISH FLOOR
CLG.	CEILING		
CEM.	CEMENT	GALV	GALVANIZED
CTR.	CENTER	GI.	GALVANIZED IRON
CL	CENTER LINE	GA.	GAUGE
CER.	CERAMIC	GL.	GLASS
C.T.	CERAMIC TILE	GR.	GRADE
CLR.	CLEAR (ANCE)	GND.	GROUND
CLO.	CLOSET	GYP. BD.	GYPSUM BOARD
COL.	COLUMN	GWB	GYPSUM WATERPROOF BOARD
CONC.	CONCRETE		
CMU	CONCRETE MASONRY UNIT	H.D.P.E.	HIGH DENSITY POLYETHYLENE
CMP	CORRUGATED METAL PIPE	HG#	HARDWARE GROUP #
CONN.	CONNECTION	HDWD.	HARDWOOD
CONSTR.	CONSTRUCTION	HT.	HEIGHT
CONT.	CONTINUE/CONTINUOUS	H.P.	HIGH POINT
CONTR.	CONTRACTOR	HORIZ.	HORIZONTAL
C.J.	CONTROL JOINT	H.B.	HOSE BIBB
CORR.	CORRIDOR	H.M.	HOLLOW METAL
CNTR.	COUNTER	HR.	HOURS (FIRE RATING)
CTSK.	COUNTERSUNK		
		IN.	INCH
DET.	DETAIL	I.D.	INSIDE DIAMETER
DEPT.	DEPARTMENT	INSUL.	INSULATION
DIA.	DIAMETER	INT.	INTERIOR
DIM.	DIMENSION	I.E.	INVERT ELEVATION
DN.	DOWN	INV.	
D.S.	DOWNSPOUT		JANITOR
DWG.	DRAWING	JAN.	JOINT
D.F.	DRINKING FOUNTAIN	JT.	JUNCTION BOX
		J-BOX	
E.	EAST		KITCHEN
EA.	EACH	KIT.	
ELEC.	ELECTRIC (AL)		LAMINATE
ELEV./EL.		LAM.	LAVATORY
		LAV.	LIGHT
		LT.	LOW POINT
		LP.	

MATL.	MATERIAL	RET.	RETAINING
MAS.	MASONRY	REV.	REVISED
MAINT.	MAINTENANCE	R.	RISER
MFR.	MANUFACTURER	R.D.	ROOF DRAIN
M.H.	MANHOLE	RM.	ROOM
M.O.	MASONRY OPENING	R.O.	ROUGH OPENING
MAX.	MAXIMUM		
MECH.	MECHANICAL	SCHED.	SCHEDULE
MEMB.	MEMBRANE	SEAL.	SEALANT
MEN	MEN'S TOILET	SECT.	SECTION
MTL./MET.	METAL	S.SK.	SERVICE SINK
MIN.	MINIMUM	SHT.	SHEET
MIR.	MIRROR	SIM.	SIMILAR
MISC.	MISCELLANEOUS	SL./SLP.	SLOPE
MTD.	MOUNTED	S.C.	SOLID CORE
MUL.	MULLION	SPEC.	SPECIFICATIONS
		SQ.	SQUARE
NOM.	NOMINAL	STD.	STANDARD
N.	NORTH	STL.	STEEL
N.I.C.	NOT IN CONTRACT	STOR.	STORAGE
N.T.S.	NOT TO SCALE	STRUCT	STRUCTURAL/STRUCTURE
NO.	NUMBER	SYM.	SYMMETRICAL
OR #	ORDINATE NUMBER	T.B.R.	TO BE REMOVED
OFF.	OFFICE	TEL.	TELEPHONE
O.C.	ON CENTER	TEMP.	TEMPORARY / TEMPERED
OPNG.	OPENING	THK.	THICK (NESS)
OPP.	OPPOSITE	T.& G	TONGUE AND GROOVE
OPP. H.	OPPOSITE HAND	T/CONC	TOP OF CONCRETE
O.D.	OUTSIDE DIAMETER	T/CURB	TOP OF CURB
O.R.D.	OVERFLOW ROOF DRAIN	T/FTG.	TOP OF FOOTING
		T.O.P.	TOP OF PLATE
PTD.-E	PAINTED EPOXY	T/WALL	TOP OF WALL
PTD.	PAINTED	T.	TREAD
PR.	PAIR	TYP.	TYPICAL
PART.	PARTITION		
PED.	PEDESTRIAN	UNF.	UNFINISHED
PLAS.	PLASTER	U.N.O.	UNLESS NOTED OTHERWISE
P. LAM.	PLASTIC LAMINATE		
PL	PLATE	VAR.	VARY OR VARIES
PLYWD.	PLYWOOD	VERT.	VERTICAL
PT.	POINT	V.T.R.	VENT THROUGH ROOF
		VCT	VINYL COMPOSITION TILE
Q.T.	QUARRY TILE		
		W/	WITH
RAD.	RADIUS	W.A.S.	WELDED ANCHOR STUD
R.B.	RUBBER BASE	WD.	WOOD
R.W.L.	RAIN WATER LEADER	WP.	WATERPROOF
R.F.F.	REFERENCE FINISH FLOOR	WSCT.	WAINSCOT
REFL.	REFLECTED	W/O	WITHOUT
REINF.	REINFORCING	W.P.	WORKING POINT
REQ.	REQUIRED	W.R.	WATER RESISTANT
		W.I.	WROUGHT IRON

MATERIALS LEGEND

EARTH
GRAVEL
SAND
CONCRETE
CONCRETE W/ ARCH. FINISH
CAST STONE
CMU
MARBLE
BRICK
GRANITE
LIMESTONE
STONE
WOOD (BLOCKING)
PLYWOOD
WOOD FRAMING
WOOD FINISH
STEEL
ALUMINUM
RIGID INSULATION
BATT INSULATION
PLASTER
ACOUSTICAL TILE
COMPRESSIBLE FILLER
BACKER ROD AND FILLER
METAL LATH
GYPSUM BOARD
FENCE
TO REMOVE

GRAPHIC SYMBOLS

BLDG. ELEV. SYMB.
RM NAME / RM# / F.IN. / W/N
RM. NAME/NUMB RM. FINISH SYMB.
CEIL. FINISH/ELEV. SYMB.
BLDG. SECT. SYMB.
DETAIL REF. SYMB.
WALL SECT. SYMB.
INTR. ELEV. SYMB.
KEYED NOTE SYMB.
DOOR/HDWR. SYMB.
DATUM PT. SYMB.
WINDOW SYMB.
SPOT ELEV. SYMB.

PROJECT DIRECTORY

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801-466-4021/FAX-466-8536

ELECTRICAL ENGINEER
THOMAS & KOLKMAN ENGINEERS
597 West 1700 South
Salt Lake City, Utah 84115
801-484-8161/FAX-

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	2006
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code	2006	Guidelines	2006

A. Occupancy and Group: B
Change in Use: Yes ____ No X Mixed Occupancy: Yes ____ No X
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO
B. Seismic Design Category: N.A. Design Wind Speed: N.A. mph
C. Type of Construction (circle one):
I A | I B | II A | II B | III A | (III B) | IV HT | V A | V B
D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 0 South: 0 East: 0 West: 0
E. Mixed Occupancies: NO Nonseparated Uses: N.A.
F: Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: N.A.
G: Number of Stories: 2 Building Height: 29'-8"
H: Actual Area per Floor (square feet): 29,020 1st FLR. 11,300 2nd FLR.
I: Tabular Area: 19,020
J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_1 I_f}{100}\right] + \left[\frac{A_1 I_s}{100}\right]$ $\qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:
Actual Area ≤ 1
Allowable Area
c) Total Allowable Area for:
1) One Story: 33,250
2) Two Story: A_a (2) 66,500
3) Three Story: A_a (3) N.A.
d) Unlimited Area Building: Yes ____ No X Code Section: ____
K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	N.A.		Floors - Ceiling Floors	N.A.	
Interior Bearing Walls	N.A.		Roofs - Ceiling Roofs	N.A.	
Exterior Non-Bearing Walls	N.A.		Exterior Doors and Windows	N.A.	
Structural Frame	N.A.		Shaft Enclosures	N.A.	
Partitions - Permanent	N.A.		Fire Walls	N.A.	
Fire Barriers	N.A.		Fire Partitions	N.A.	
			Smoke Partitions		

L. Design Occupant Load: N.A.
Exit Width Required: N.A. Exit Width Provided: N.A.
M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) N.A. (f) N.A. Provided (m) N.A. (f) N.A.
b) Lavatories - Required (m) N.A. (f) N.A. Provided (m) N.A. (f) N.A.
c) Bath Tubs or Showers: N.A.
d) Drinking Fountains: N.A. Service Sinks: N.A.

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I - Ⅱ - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

DRAWING INDEX

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CONSULTANT

MARK	DATE	DESCRIPTION

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DIXIE STATE COLLEGE

ST. GEORGE, UTAH

DATE:	30 JANUARY 2008
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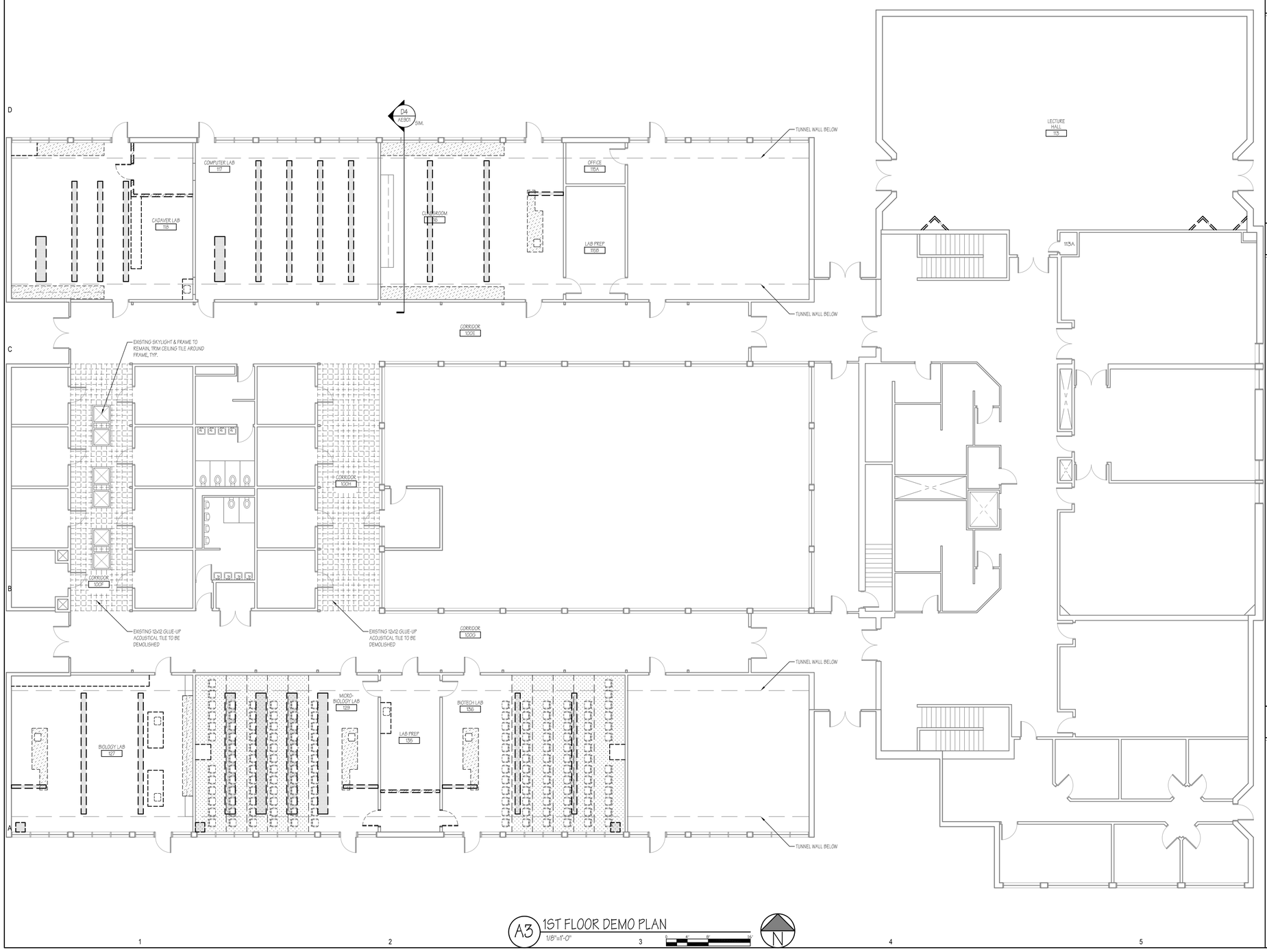
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

SHEET TITLE

COVER SHEET, GENERAL INFO, & SHEET INDEX

GI100

SHEET 1 OF 11



A3 1ST FLOOR DEMO PLAN
1/8"=1'-0"

0' 4' 8' 16'

N

GENERAL NOTES

1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.

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7. PRIOR TO BIDDING, THE CONTRACTOR IS TO SURVEY THE EXISTING WALL CONDITIONS. ALL EXISTING NAILS, SCREWS, ABANDONED FASTENERS & HARDWARE IN THE WALLS INDICATED TO REMAIN ARE TO BE REMOVED & THE HOLES PATCHED.

PLAN DEMOLITION LEGEND

- EXISTING CONCRETE FLOOR SLAB TO BE SAWCUT & DEMOLISHED, TYPICAL
- EXISTING RISERS TO BE DEMOLISHED, TYPICAL - SEE PHOTOS OF EXISTING CONDITIONS A5 - B5/AE901
- EXISTING INSTRUCTOR STATION COUNTERTOP & SINK TO BE DEMOLISHED, BASE CABINET TO REMAIN, PROTECT FROM DAMAGE & PREP AS REQUIRED TO RECEIVE NEW COUNTERTOP & SINK, TYPICAL - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR UTILITY MODIFICATIONS - SEE PHOTOS OF EXISTING CONDITIONS A2 - B2/AE901
- EXISTING COUNTERTOP TO BE DEMOLISHED, BASE CABINET TO REMAIN, PROTECT FROM DAMAGE & PREP AS REQUIRED TO RECEIVE NEW COUNTERTOP, TYPICAL - SEE PHOTO OF EXISTING CONDITIONS C5/AE901
- EXISTING COUNTERTOP TO BE DEMOLISHED, BASE & WALL CABINET TO REMAIN, PROTECT FROM DAMAGE & PREP AS REQUIRED TO RECEIVE NEW COUNTERTOP, TYPICAL
- EXISTING WOOD DOOR & H.M. FRAME TO BE DEMOLISHED, TYPICAL
- EXISTING FIXED SEATING TO BE DEMOLISHED, TYPICAL - SEE PHOTO OF EXISTING CONDITIONS A5 - B5/AE901
- EXISTING A/V CABINET TO BE DEMOLISHED, TYPICAL - SEE PHOTO OF EXISTING CONDITIONS A5/AE901
- EXISTING BASE CABINET, COUNTERTOP & SINK TO BE DEMOLISHED, TYPICAL - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR TERMINATING UTILITIES - SEE PHOTOS OF EXISTING CONDITIONS A4 - B4 - C4/AE901
- EXISTING BASE CABINET & COUNTERTOP TO BE DEMOLISHED, TYPICAL - SEE PHOTOS OF EXISTING CONDITIONS A3 - B3/AE901
- EXISTING LAB BENCH, COUNTERTOP & SINKS TO BE DEMOLISHED, TYPICAL - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR TERMINATING UTILITIES - SEE PHOTO OF EXISTING CONDITIONS A1/AE901
- EXISTING FIXED LAB TABLES TO BE SALVAGED & RETURNED TO DSC - SEE PHOTO OF EXISTING CONDITIONS D5/AE901, TYPICAL - SEE ELECTRICAL DRAWINGS FOR POWER/DATA MODIFICATIONS - SEE PHOTO OF EXISTING CONDITIONS C1 - C2/AE901
- EXISTING CHEMISTRY LAB BENCH - SEE PHOTOS OF EXISING CONDITIONS A6 - B6 - C6/AE901, EPOXY RESIN COUNTERTOP & SHELF TO BE MODIFIED, REMOVE EPOXY RESIN SHELF & SUPPORTS ABOVE COUNTERTOP IN CENTER OF BENCH - AFTER REMOVING SUPPORTS SAND & POLISH AREAS LEVEL & SMOOTH WITH COUNTERTOP, MODIFY ENDS OF LAB BENCHS (WHERE INDICATED) - CAREFULLY REMOVE COUNTERTOP & SINK - MODIFY CABINET AS SHOWN IN DTL. A4/AE470 & REINSTALL COUNTERTOP & SINK, TYPICAL - SEE MECHANICAL DRAWINGS FOR UTILITY MODIFICATIONS
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- EXISTING CABINET, COUNTERTOP & SINK TO BE DEMOLISHED, TYPICAL - SEE MECHANICAL DRAWINGS FOR TERMINATING UTILITIES - SEE PHOTO OF EXISTING CONDITION C5/AE901

PARTITION LEGEND

- EXISTING INTERIOR WALL TO REMAIN, TYPICAL
- EXISTING EXTERIOR WALL TO REMAIN, TYPICAL
- EXISTING STUD WALL TO BE DEMOLISHED, TYPICAL
- NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL
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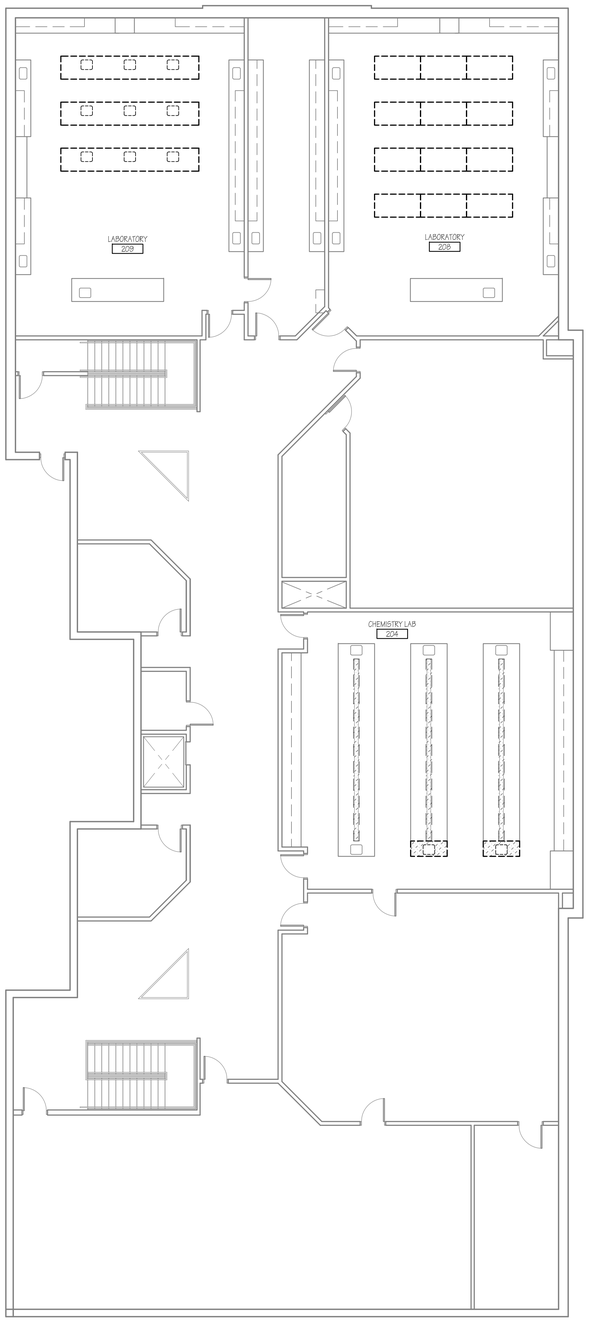
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

SHEET TITLE

FIRST FLOOR DEMO PLAN

AD101

SHEET 2 OF 11



A4 2ND FLOOR DEMO PLAN
1/8"=1'-0"

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- EXISTING COUNTERTOP TO BE DEMOLISHED, BASE CABINET TO REMAIN, PROTECT FROM DAMAGE & PREP AS REQUIRED TO RECEIVE NEW COUNTERTOP, TYPICAL - SEE PHOTO OF EXISTING CONDITIONS C5/AE901
- EXISTING COUNTERTOP TO BE DEMOLISHED, BASE & WALL CABINET TO REMAIN, PROTECT FROM DAMAGE & PREP AS REQUIRED TO RECEIVE NEW COUNTERTOP, TYPICAL
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- EXISTING FIXED SEATING TO BE DEMOLISHED, TYPICAL - SEE PHOTO OF EXISTING CONDITIONS A5 - B5/AE901
- EXISTING A/V CABINET TO BE DEMOLISHED, TYPICAL - SEE PHOTO OF EXISTING CONDITIONS A5/AE901
- EXISTING BASE CABINET, COUNTERTOP & SINK TO BE DEMOLISHED, TYPICAL - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR TERMINATING UTILITIES - SEE PHOTOS OF EXISTING CONDITIONS A4 - B4 - C4/AE901
- EXISTING BASE CABINET & COUNTERTOP TO BE DEMOLISHED, TYPICAL - SEE PHOTOS OF EXISTING CONDITIONS A3 - B3/AE901
- EXISTING LAB BENCH, COUNTERTOP & SINKS TO BE DEMOLISHED, TYPICAL - SEE MECHANICAL & ELECTRICAL DRAWINGS FOR TERMINATING UTILITIES - SEE PHOTO OF EXISTING CONDITIONS A1/AE901
- EXISTING FIXED LAB TABLES TO BE SALVAGED & RETURNED TO DSC - SEE PHOTO OF EXISTING CONDITIONS D6/AE901, TYPICAL - SEE ELECTRICAL DRAWINGS FOR POWER/DATA MODIFICATIONS - SEE PHOTO OF EXISTING CONDITIONS C1 - C2/AE901
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PARTITION LEGEND

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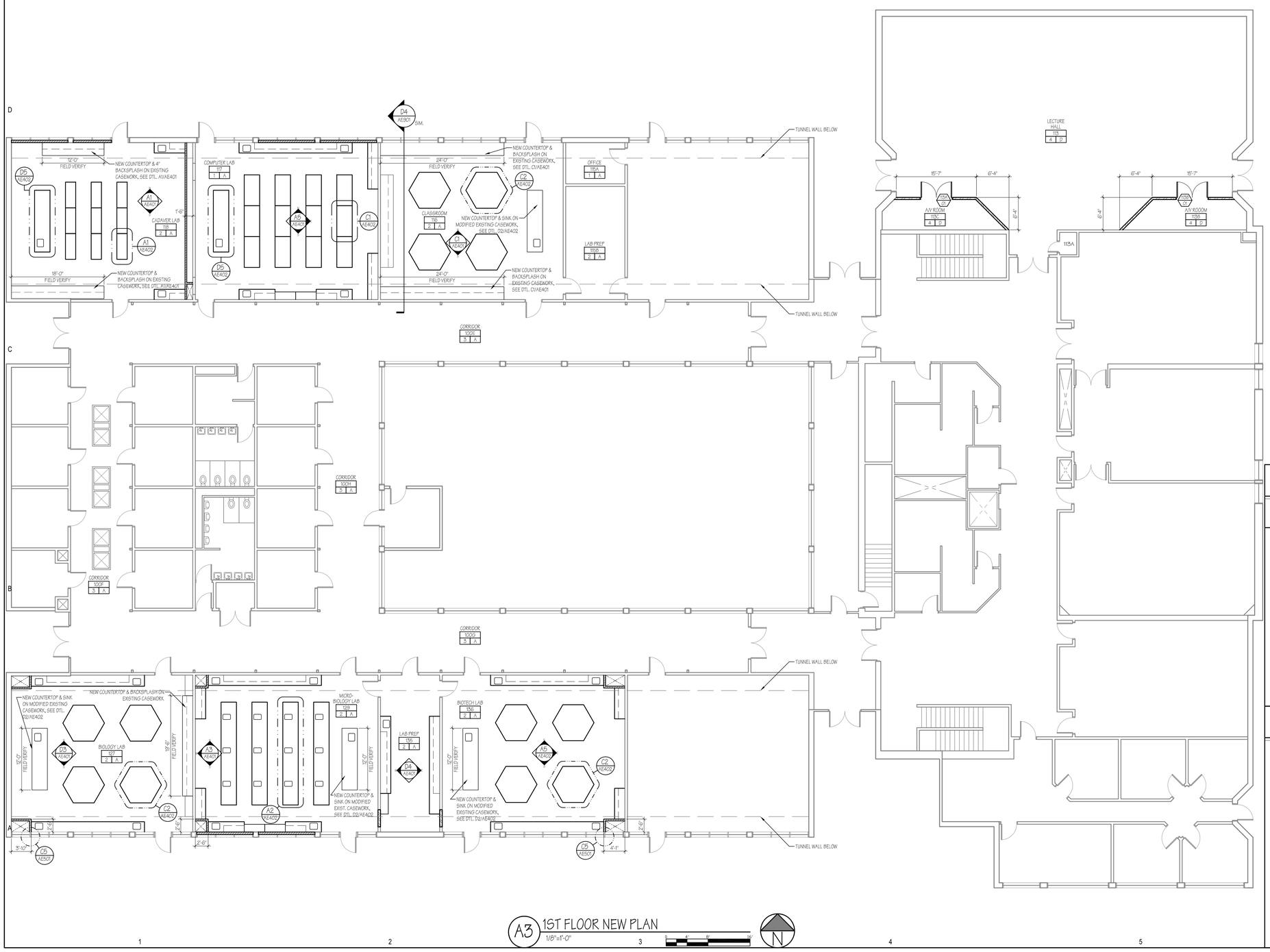
SHEET TITLE

SECOND FLOOR DEMO PLAN

AD102

SHEET 3 OF 11



A3 1ST FLOOR NEW PLAN
1/8"=1'-0"

0 4' 8' 16'

N

FINISH LEGEND

ROOM NAME
RM NUM
F W
FLOOR / BASE — WALL / WAINSCOT

1. NEW CARPET & 4" RUBBER BASE	A. PATCH & RE-PAINT ALL WALLS
2. NEW HEAT-WELDED SEAMLESS VINYL & 4" RUBBER BASE	B. EXISTING WALL FINISH TO REMAIN, PROTECT FROM DAMAGE
3. EXISTING FLOOR FINISH & BASE TO REMAIN, PROTECT FROM DAMAGE	C. PAINT NEW WALLS ONLY, FINISH ON EXISTING WALLS TO REMAIN, PROTECT FROM DAMAGE
4. EXISTING FLOOR FINISH & BASE ON EXISTING WALLS TO REMAIN, NEW 4" RUBBER BASE ON NEW WALLS TO MATCH EXISTING	D. PAINT NEW WALLS, PATCH & RE-PAINT EXISTING WALLS

PARTITION LEGEND

- EXISTING INTERIOR WALL TO REMAIN, TYPICAL
- EXISTING EXTERIOR WALL TO REMAIN, TYPICAL
- EXISTING STUD WALL TO BE DEMOLISHED, TYPICAL
- NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL
- NEW 3-5/8" METAL STUD FURRING (WINDOW IN-FILL) W/ 5/8" GYPSUM BOARD ON ONE SIDE & 3" BATT INSULATION, PAINT WINDOW BLACK, TYPICAL
- NEW 3-5/8" METAL STUD FURRING W/ 5/8" GYPSUM BOARD ON ONE SIDE TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

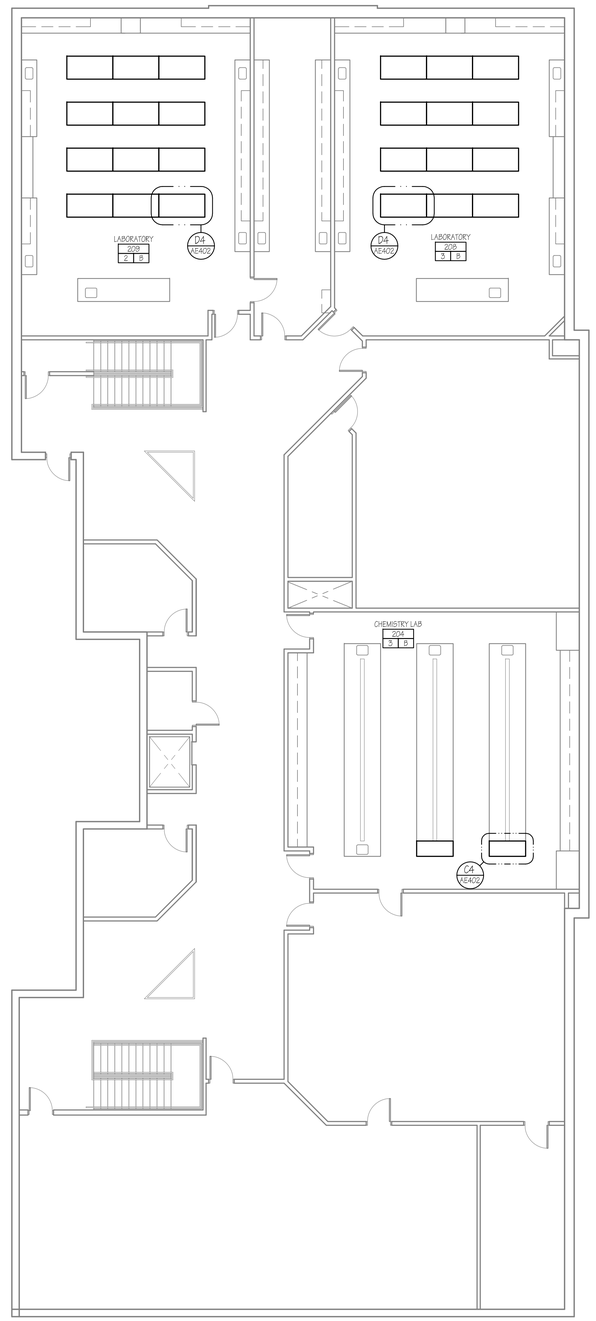
DATE:	30 JANUARY 2008
DFCM PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

SHEET TITLE

FIRST FLOOR NEW PLAN

AE101

SHEET 4 OF 11



A4 2ND FLOOR NEW PLAN
1/8"=1'-0"

FINISH LEGEND

ROOM NAME
RM NUM
FLOOR / BASE — F | W — WALL / WAINSCOT

1. NEW CARPET & 4" RUBBER BASE
2. NEW HEAT-WELDED SEAMLESS VINYL & 4" RUBBER BASE
3. EXISTING FLOOR FINISH & BASE TO REMAIN, PROTECT FROM DAMAGE
4. EXISTING FLOOR FINISH & BASE ON EXISTING WALLS TO REMAIN, NEW 4" RUBBER BASE ON NEW WALLS TO MATCH EXISTING

A. PATCH & RE-PAINT ALL WALLS
B. EXISTING WALL FINISH TO REMAIN, PROTECT FROM DAMAGE
C. PAINT NEW WALLS ONLY, FINISH ON EXISTING WALLS TO REMAIN, PROTECT FROM DAMAGE
D. PAINT NEW WALLS, PATCH & RE-PAINT EXISTING WALLS

PARTITION LEGEND

- EXISTING INTERIOR WALL TO REMAIN, TYPICAL
- EXISTING EXTERIOR WALL TO REMAIN, TYPICAL
- EXISTING STUD WALL TO BE DEMOLISHED, TYPICAL
- NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL
- NEW 3-5/8" METAL STUD FURRING (WINDOW IN-FILL) W/ 5/8" GYPSUM BOARD ON ONE SIDE & 3" BATT INSULATION, PAINT WINDOW BLACK, TYPICAL
- NEW 3-5/8" METAL STUD FURRING W/ 5/8" GYPSUM BOARD ON ONE SIDE TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL

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ST. GEORGE, UTAH

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DATE:	30 JANUARY 2008
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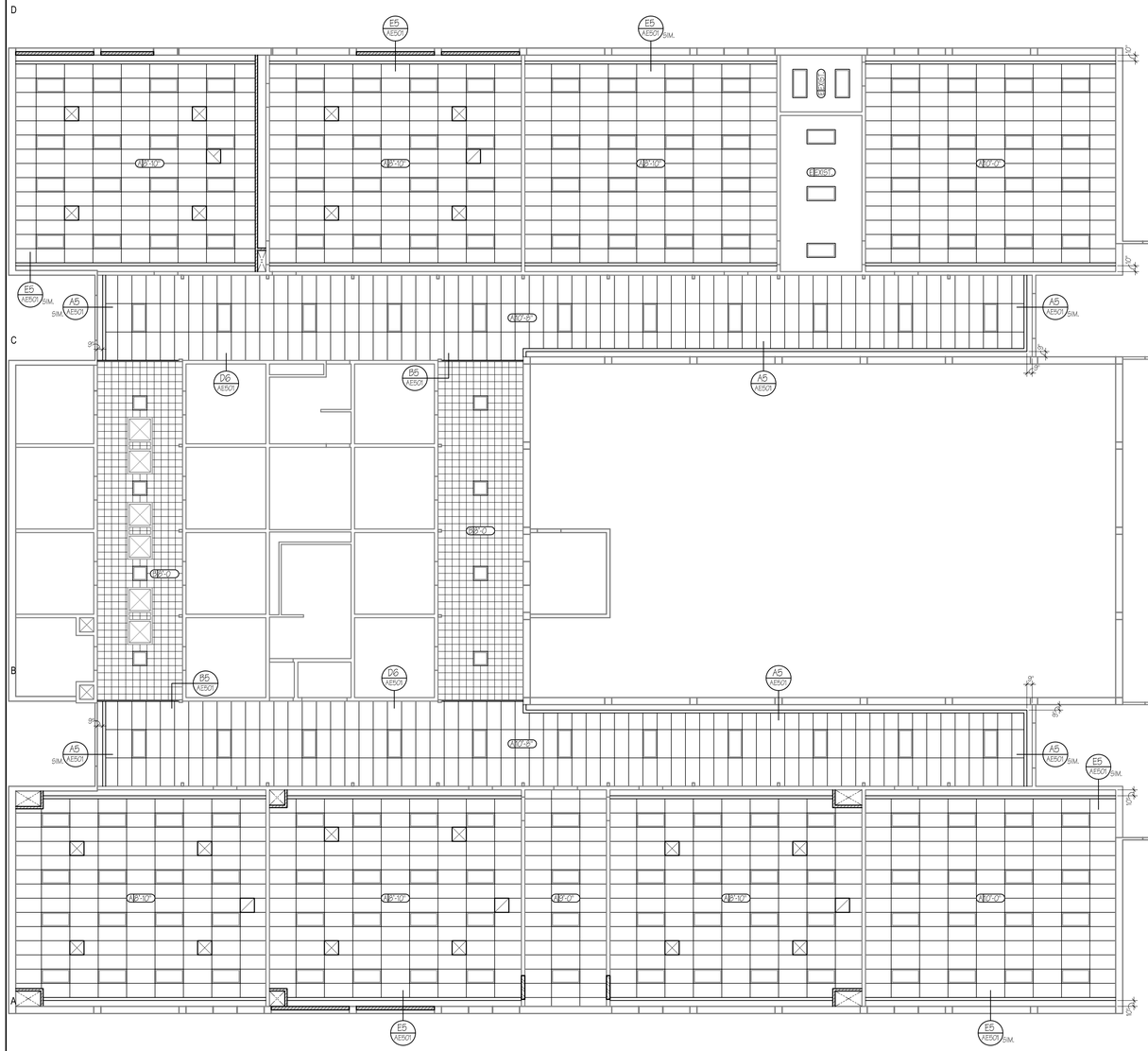
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

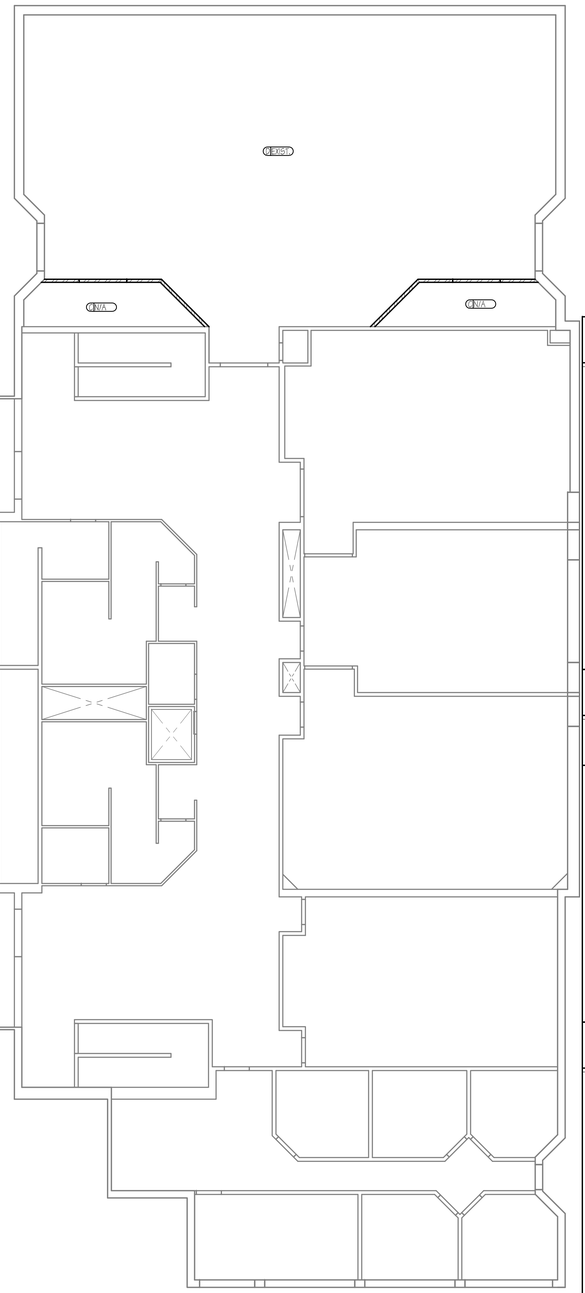
SHEET TITLE

SECOND FLOOR
NEW PLAN

AE102

SHEET 5 OF 11





CEILING PLAN LEGEND

- NEW SUSPENDED 2X4 CEILING GRID & LAY-IN ACOUSTIC PANELS, TYPICAL
- NEW 12X12 GLUE-UP ACOUSTICAL TILE, TYPICAL
- NEW 2X4 LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS, TYPICAL
- NEW MECHANICAL SUPPLY GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL
- NEW MECHANICAL RETURN GRILLE, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL
- NEW EXHAUST FAN, SEE MECHANICAL DRAWINGS FOR FURTHER INSTRUCTIONS, TYPICAL

CEILING FINISH LEGEND

CEILING FINISH — 12'-0" — CEILING ELEVATION

A. NEW SUSPENDED 2X4 CEILING GRID SYSTEM W/ ACOUSTICAL PANELS
B. NEW 12X12 GLUE-UP ACOUSTICAL TILE
C. OPEN TO STRUCTURE ABOVE
D. EXISTING CEILING FINISH TO REMAIN, MODIFY & REPAIR AT NEW WALLS
E. EXISTING GYPSUM BOARD CEILING TO BE PAINTED

PARTITION LEGEND

- EXISTING INTERIOR WALL TO REMAIN, TYPICAL
- EXISTING EXTERIOR WALL TO REMAIN, TYPICAL
- EXISTING STUD WALL TO BE DEMOLISHED, TYPICAL
- NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL
- NEW 3-5/8" METAL STUD FURRING (WINDOW IN-FILL) W/ 5/8" GYPSUM BOARD ON ONE SIDE & 3" BATT INSULATION, PAINT WINDOW BLACK, TYPICAL
- NEW 3-5/8" METAL STUD FURRING W/ 5/8" GYPSUM BOARD ON ONE SIDE TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE @ 4'-0" O.C. TYPICAL

A3 1ST FLOOR NEW PLAN
1/8"=1'-0"

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DESIGNED BY:	RLS
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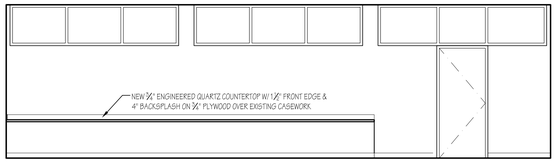
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

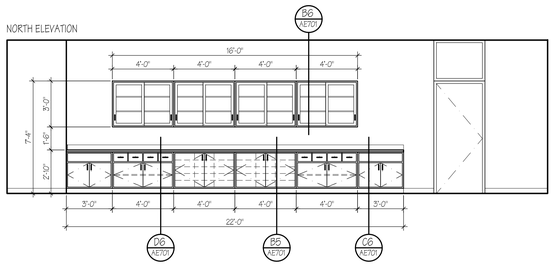
SHEET TITLE

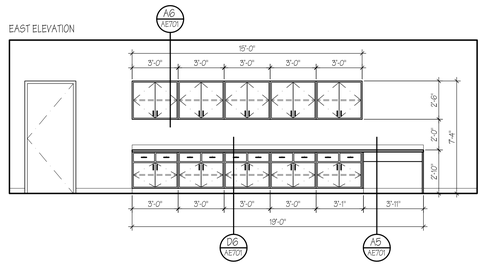
FIRST FLOOR REFLECTED CEILING PLAN

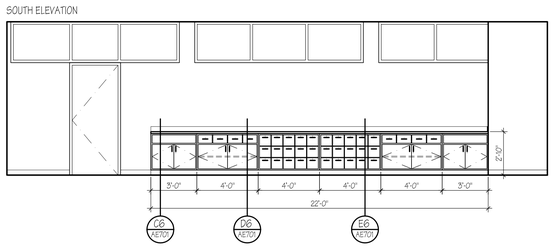
AE111

SHEET 6 OF 11

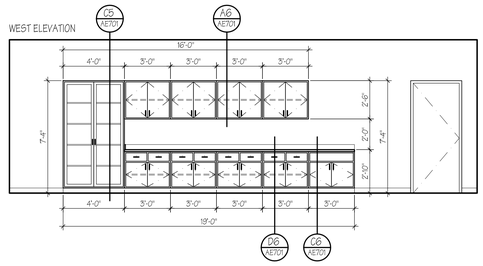




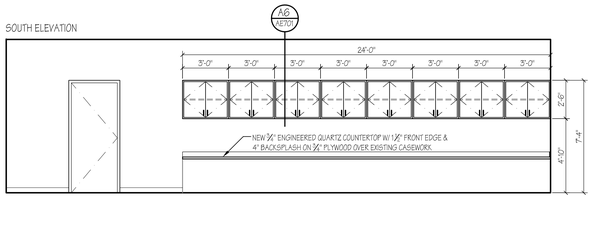




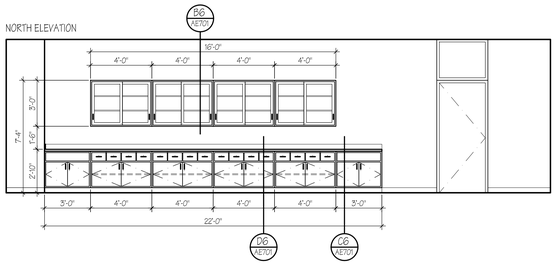
D3 ROOM 127 INTERIOR ELEVATION
1/4"=1'-0"

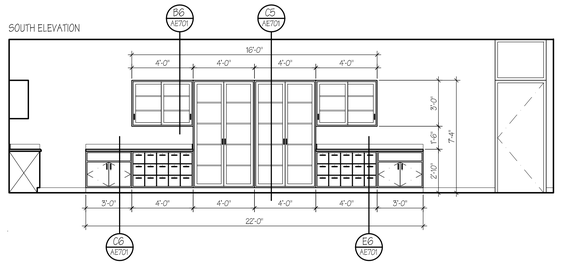


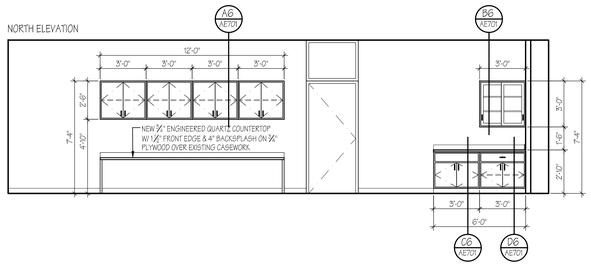
D4 ROOM 135 INTERIOR ELEVATION
1/4"=1'-0"

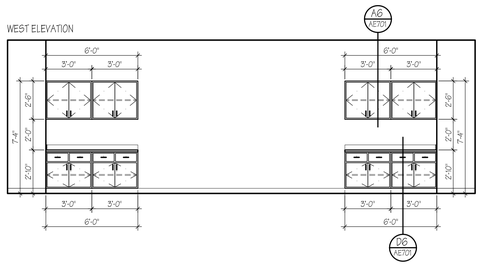


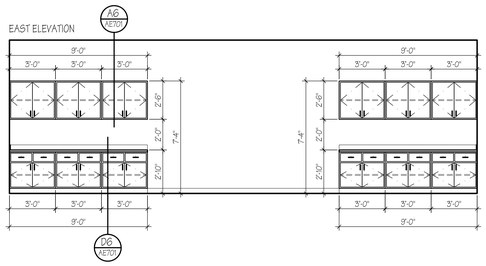
C1 ROOM 116 INTERIOR ELEVATION
1/4"=1'-0"

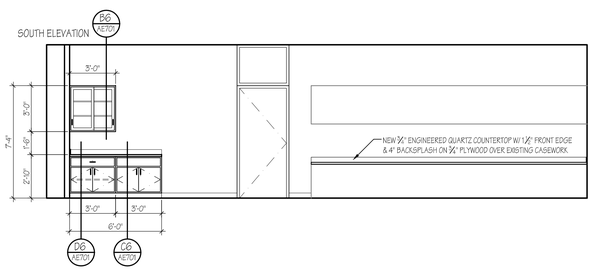




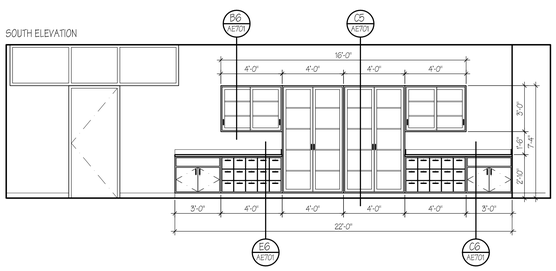




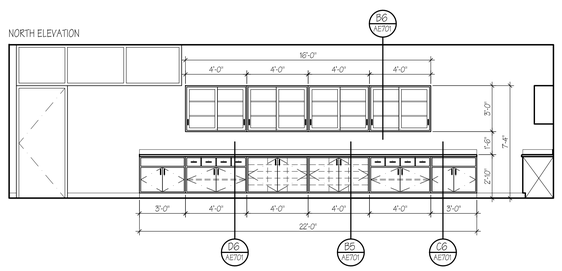




A1 ROOM 118 INTERIOR ELEVATION
1/4"=1'-0"



A3 ROOM 129 INTERIOR ELEVATION
1/4"=1'-0"



A5 ROOM 117 INTERIOR ELEVATION
1/4"=1'-0"

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MARK	DATE	DESCRIPTION

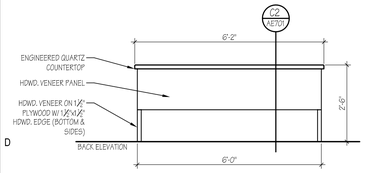
DATE:	30 JANUARY 2008
DFCM PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

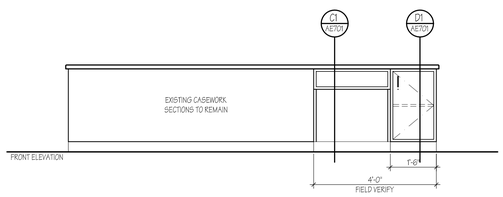
SHEET TITLE

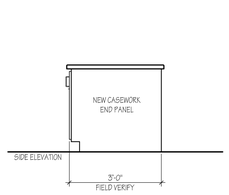
INTERIOR ELEVATIONS

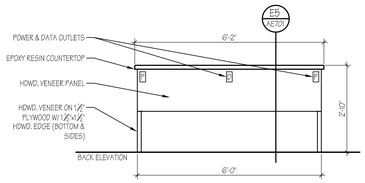
AE401

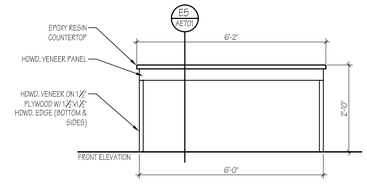
SHEET 7 OF 11

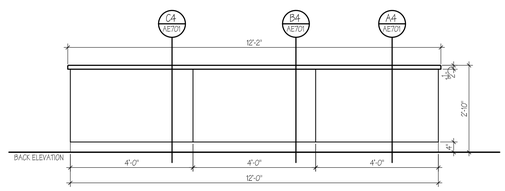


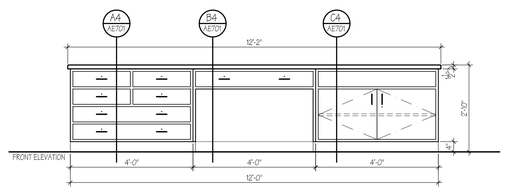


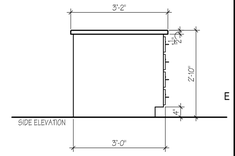


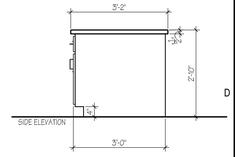




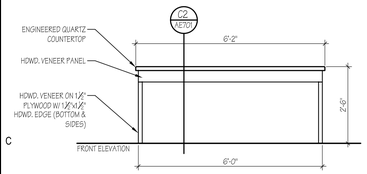


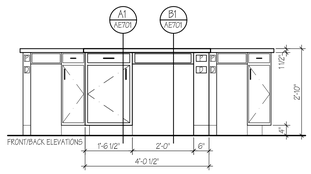


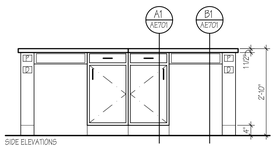




D2 RMS. 116, 127, 129 & 136 CASEWORK ELEVS.
1/2"=1'-0"







D4 ROOMS 208 & 209 CASEWORK ELEVS.
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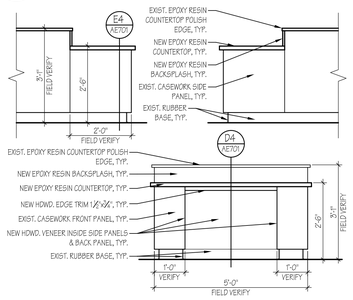
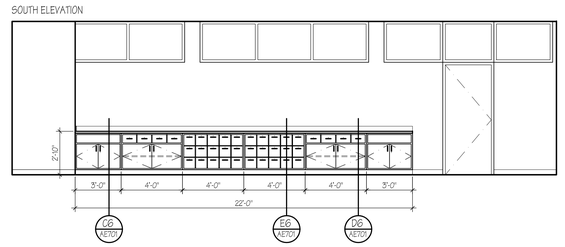
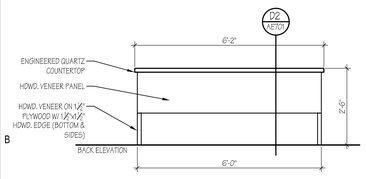


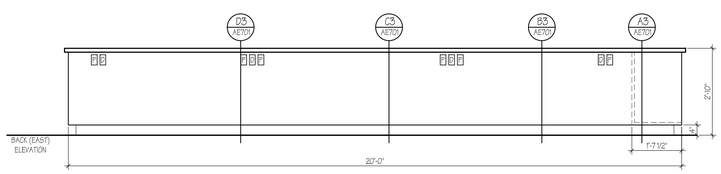
D5 ROOMS 117 & 118 CASEWORK ELEVATIONS
1/2"=1'-0"

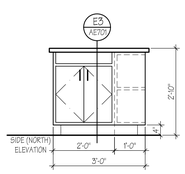


C1 ROOM 117 CASEWORK ELEVATIONS
1/2"=1'-0"

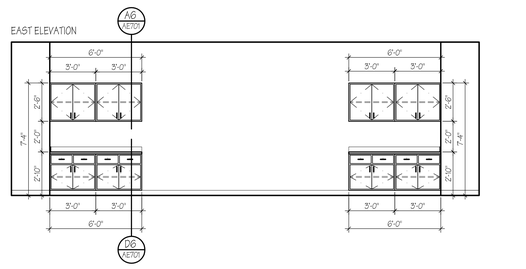
C2 RMS. 116, 127 & 136 CASEWORK ELEVS.
1/2"=1'-0"

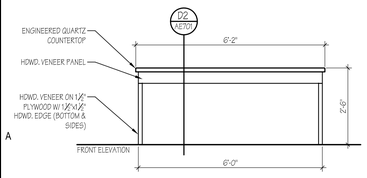


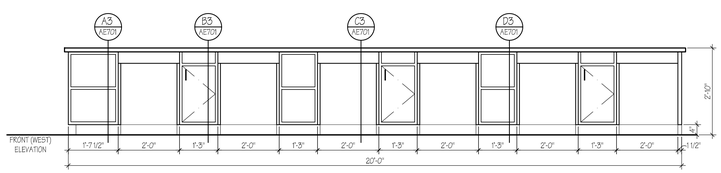


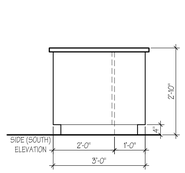


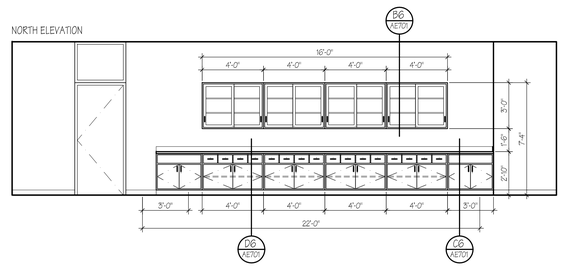
C4 ROOM 204 CASEWORK ELEVATIONS
1/2"=1'-0"











A1 ROOM 118 CASEWORK ELEVATIONS
1/2"=1'-0"

A2 ROOM 129 CASEWORK ELEVATIONS
1/2"=1'-0"

A5 ROOM 136 INTERIOR ELEVATION
1/4"=1'-0"

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CONSULTANT

SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

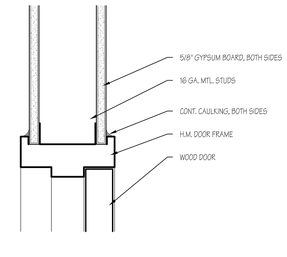
DATE:	30 JANUARY 2008
DFCM PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	
DRAWN BY:	RLS
CHECKED BY:	BWS
DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

SHEET TITLE

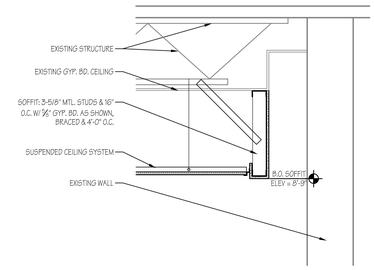
INTERIOR ELEVATIONS

AE402

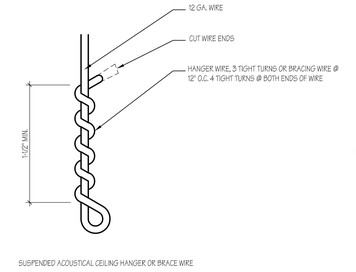
SHEET 8 OF 11



E4 DOOR HEAD DETAIL
3"=1'-0"

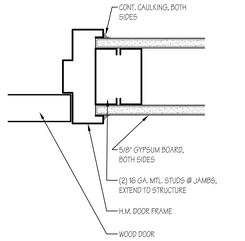


E5 CEILING DROP SOFFIT DETAIL
3/4"=1'-0"

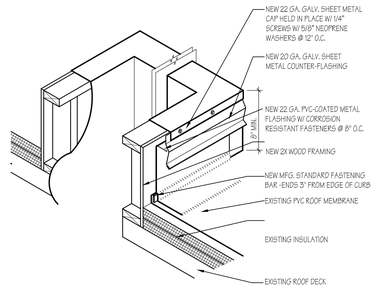


SUSPENDED ACOUSTICAL CEILING HANGER OR BRACE WIRE

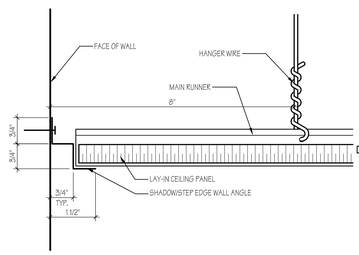
E6 CEILING DETAIL
1"=1'



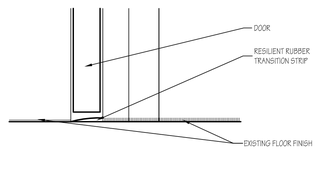
D4 DOOR JAMB DETAIL
3"=1'-0"



D5 MECH. EQUIP. ROOF CURB DETAIL
1"=1'-0"



D6 CEILING DETAIL
1"=6"



C4 DOOR THRESHOLD DETAIL
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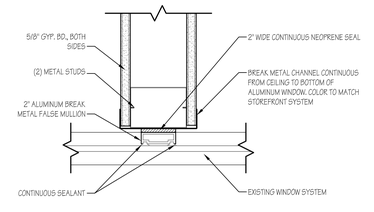
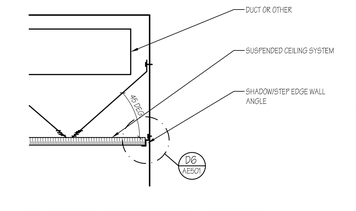
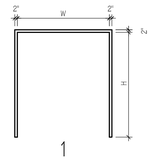


C5 WALL/MULLION DETAIL
3"=1'-0"

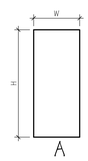


NOTE: WHEN DUCT OR OTHER OBSTRUCTION PREVENTS SPLAY WIRE ATTACHED AT CEILING, OR IF 45° CANNOT BE ACHIEVED THE USE OF SIDEWALL MAY BE USED.

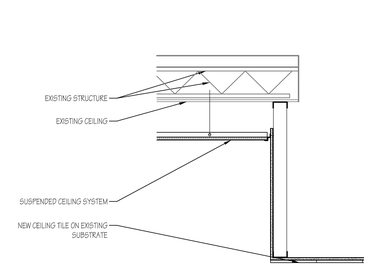
C6 CEILING DETAIL
1"=6"



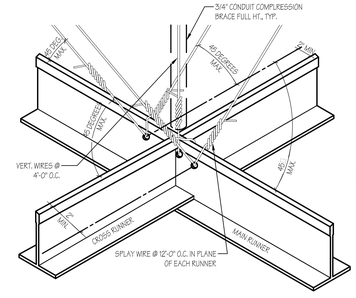
B3 FRAME TYPES
1/4"=1'-0"



B4 DOOR TYPES
1/4"=1'-0"



B5 CEILING SOFFIT DETAIL
3/4"=1'-0"

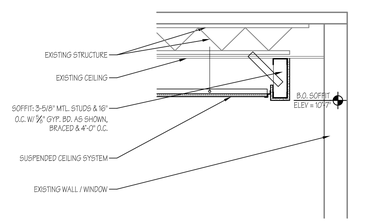


B6 CEILING DETAIL
N.T.S.

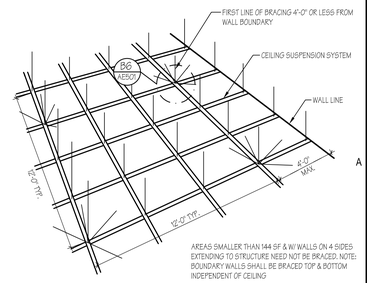
DOOR SCHEDULE

DOOR NUMB.	DOOR						FRAME						
	TYPE	MATERIAL	FINISH	DOOR SIZE			TYPE	MATERIAL	FINISH	UL LABEL	DETAILS		
				W	H	T					H	J	T
113A	A - DBL	SCW	PRE. FIN.	3'-0"	7'-2"	1-3/4"	1	HM	PAINT	--	E4/AE501	D4/AE501	C4/AE501
102A	A - DBL	SCW	PRE. FIN.	3'-0"	7'-2"	1-3/4"	1	HM	PAINT	--	E4/AE501	D4/AE501	C4/AE501

A3 DOOR SCHEDULE
N.T.S.



A5 CEILING DROP SOFFIT DETAIL
3/4"=1'-0"



AREAS SMALLER THAN 144 SF & W/ WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED. NOTE: BOUNDARY WALLS SHALL BE BRACED TOP & BOTTOM INDEPENDENT OF CEILING

A6 CEILING DETAIL
N.T.S.

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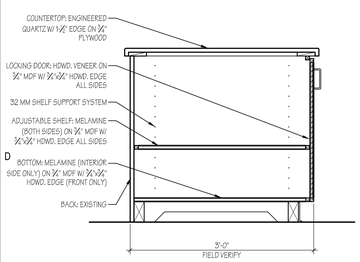
SHEET TITLE

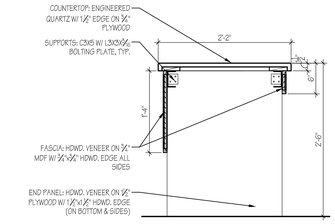
CEILING & MISC. DETAILS

AE501

SHEET 9 OF 11



D1 CASEWORK DETAIL
1"=1'-0"



D2 CASEWORK DETAIL
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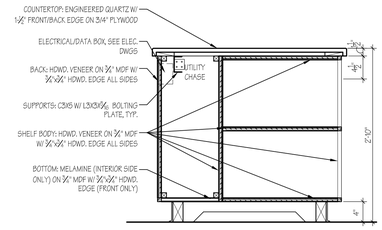
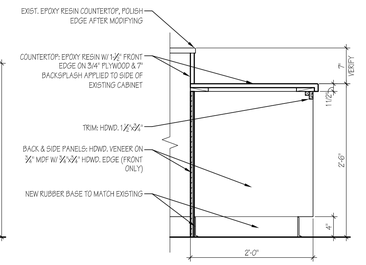
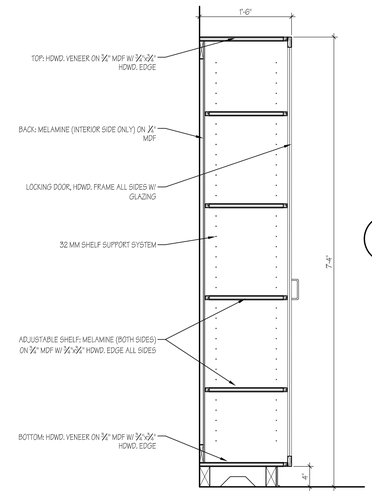


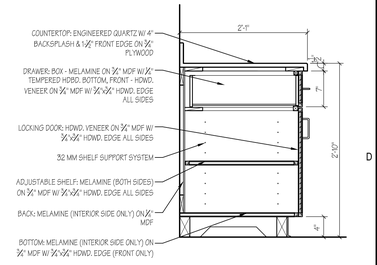
D3 CASEWORK DETAIL
1"=1'-0"



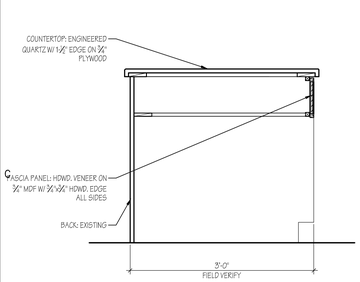
D4 CASEWORK DETAIL
1"=1'-0"



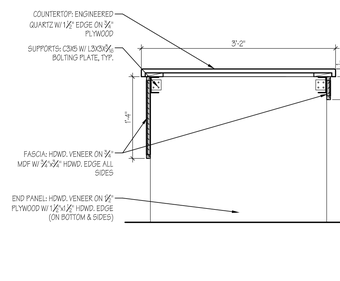
D5 CASEWORK DETAIL
1"=1'-0"



D6 CASEWORK DETAIL
1"=1'-0"



C1 CASEWORK DETAIL
1"=1'-0"



C2 CASEWORK DETAIL
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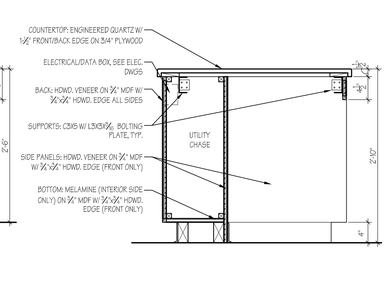

C3 CASEWORK DETAIL
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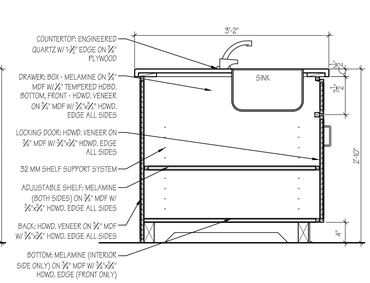
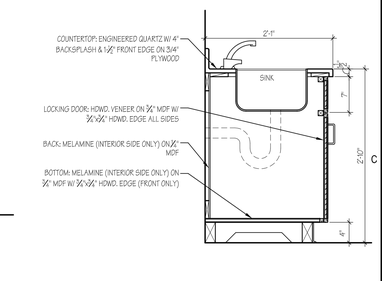


C4 CASEWORK DETAIL
1"=1'-0"

C5 CASEWORK DETAIL
1"=1'-0"



C6 CASEWORK DETAIL
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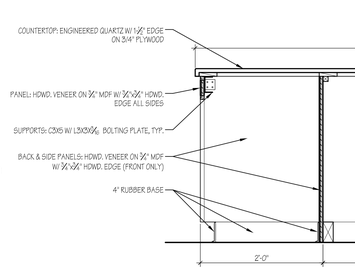
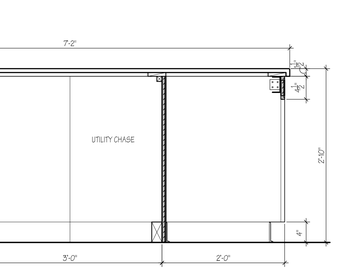


B1 CASEWORK DETAIL
1"=1'-0"



B3 CASEWORK DETAIL
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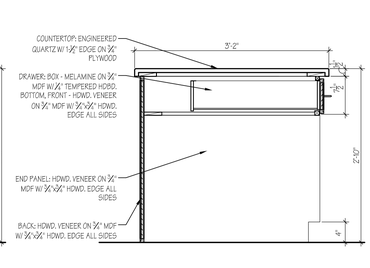

B4 CASEWORK DETAIL
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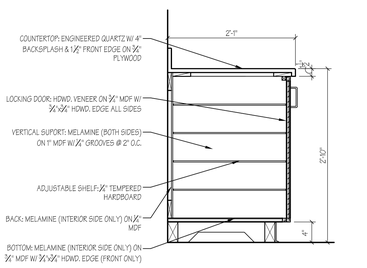

B5 CASEWORK DETAIL
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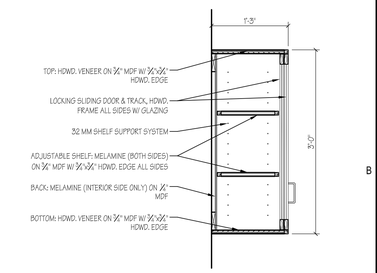

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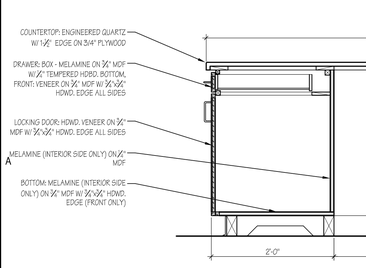
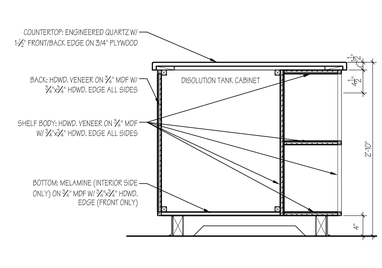


A1 CASEWORK DETAIL
1"=1'-0"



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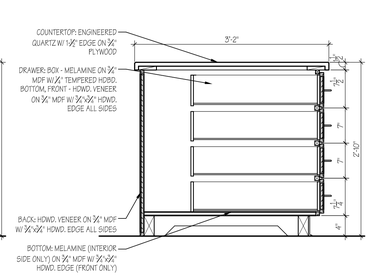

A4 CASEWORK DETAIL
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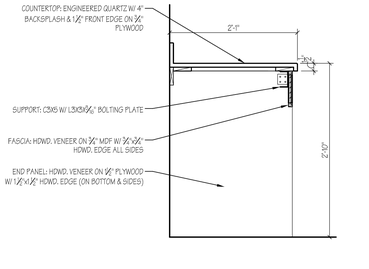

A5 CASEWORK DETAIL
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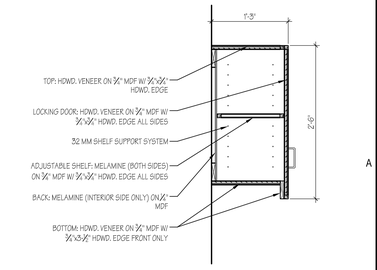

A6 CASEWORK DETAIL
1"=1'-0"

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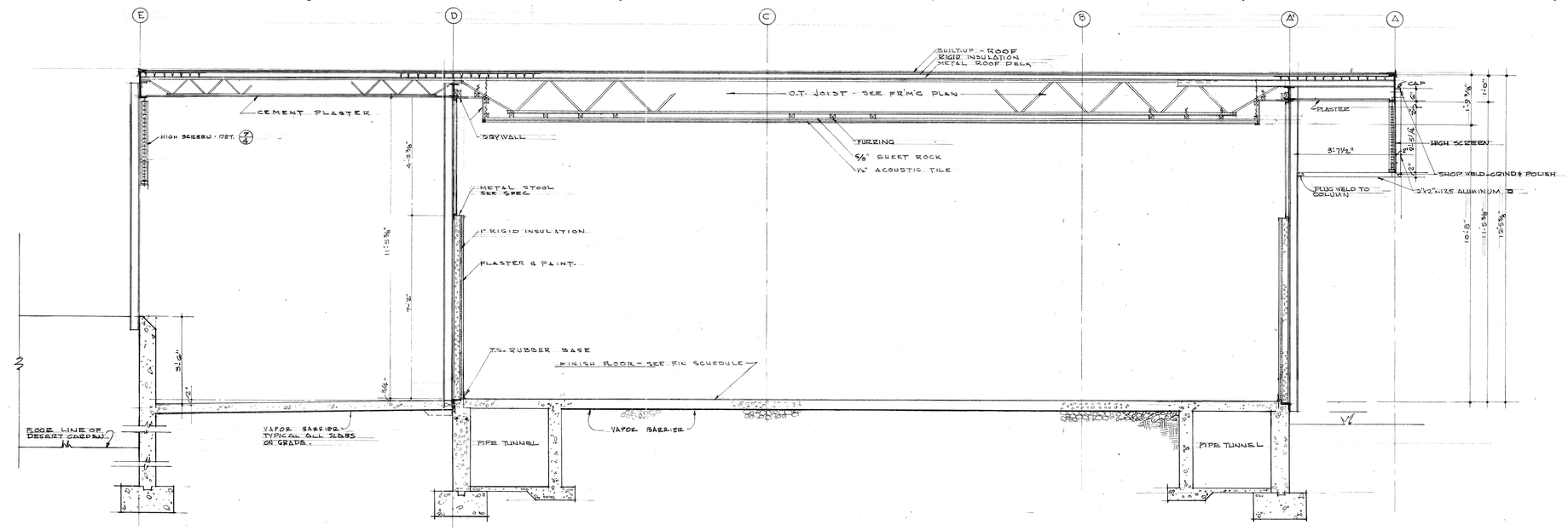
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

SHEET TITLE

CASEWORK DETAILS

AE701

SHEET 10 OF 11



D4 SECTION OF EXISTING CONDITIONS
N.T.S.

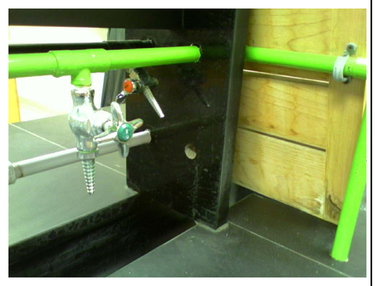
C1 PHOTO OF EXISTING CONDITIONS
N.T.S.

C2 PHOTO OF EXISTING CONDITIONS
N.T.S.

C3 PHOTO OF EXISTING CONDITIONS
N.T.S.

C4 PHOTO OF EXISTING CONDITIONS
N.T.S.

C5 PHOTO OF EXISTING CONDITIONS
N.T.S.



C6 PHOTO OF EXISTING CONDITIONS
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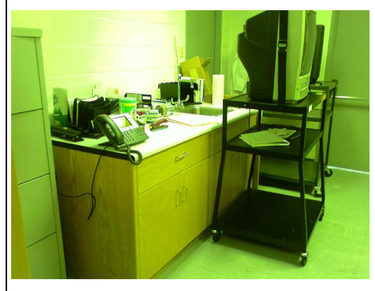
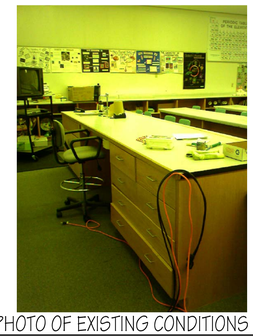
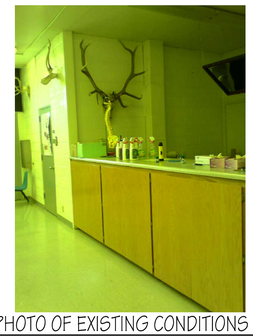


B1 PHOTO OF EXISTING CONDITIONS
N.T.S.

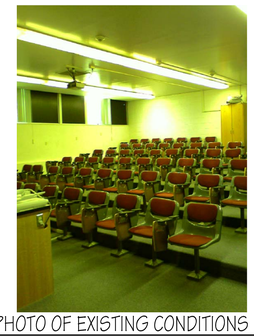


B2 PHOTO OF EXISTING CONDITIONS
N.T.S.



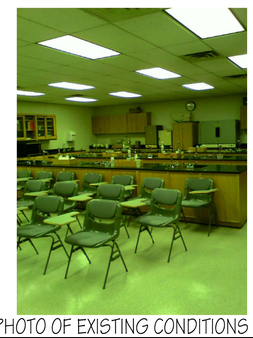
B3 PHOTO OF EXISTING CONDITIONS
N.T.S.

B4 PHOTO OF EXISTING CONDITIONS
N.T.S.

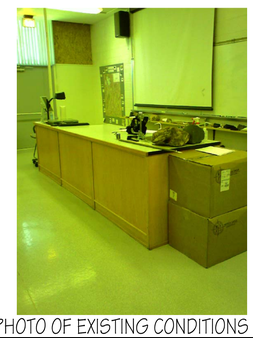


B5 PHOTO OF EXISTING CONDITIONS
N.T.S.

B6 PHOTO OF EXISTING CONDITIONS
N.T.S.



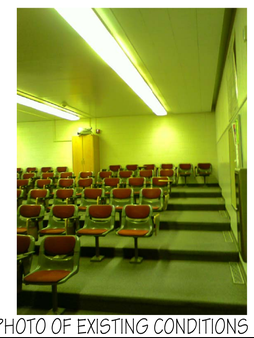
A1 PHOTO OF EXISTING CONDITIONS
N.T.S.



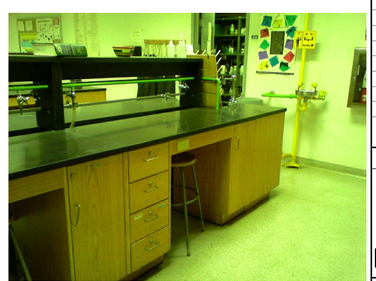
A2 PHOTO OF EXISTING CONDITIONS
N.T.S.

A3 PHOTO OF EXISTING CONDITIONS
N.T.S.

A4 PHOTO OF EXISTING CONDITIONS
N.T.S.



A5 PHOTO OF EXISTING CONDITIONS
N.T.S.



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DESIGNED BY:	RLS
DWG TYPE:	ARCHITECTURAL
ARCHITECTURAL PHASE:	CONSTRUCTION BID SET

SHEET TITLE

PHOTOGRAPHS OF EXISTING CONDITIONS

AE901

SHEET 11 OF 11

MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY		
A / ME-101		SECTION LETTER DESIGNATION SECTION DRAWN ON THIS SHEET
A2		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION
AH / 1		MECHANICAL EQUIPMENT DESIGNATION EQUIPMENT ITEM DESIGNATION
CFM / D-1		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW
R-1		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE
1		REVISION DESIGNATOR AND NUMBER
1		KEY NOTE DESIGNATOR AND NUMBER
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
AFF		ABOVE FINISHED FLOOR
AP		ACCESS PANEL
℄ EL.		CENTER LINE ELEVATION
INV. ELEV.		INVERT ELEVATION
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
ATC		CONTROL CONTRACTOR
EC		ELECTRICAL CONTRACTOR
NIC		NOT IN CONTRACT
NTS		NOT TO SCALE
C		COMMON
NC		NORMALLY CLOSED
NO		NORMALLY OPEN

SYMBOL	ABR.	DESCRIPTION
AIR SIDE		
		EXISTING AIR DUCT TO BE REMOVED
		EXISTING AIR DUCT TO REMAIN
		NEW AIR DUCT
		RECT. TO RECT. AIR DUCT TAKE-OFF
		RECT. TO RND. AIR DUCT TAKE-OFF
		RND. TO RND. AIR DUCT TAKE-OFF
		RECT. TAKE-OFF AT END OF MAIN
		FLEXIBLE AIR DUCT
		LINED DUCT
		VANED ELBOW
		RADIUS ELBOW
		CONCENTRIC DUCT TRANSITION
		ECCENTRIC DUCT TRANSITION
		FLEXIBLE AIR DUCT CONNECTION
VD		VOLUME DAMPER
		SUPPLY AIR DIFFUSER
		RETURN AIR, FRESH AIR, AND TRANSFER AIR
		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE
		RETURN OR OUTSIDE AIR DUCT UP
		SUPPLY DUCT UP
		EXHAUST AIR INTAKE UP
		RETURN OR OUTSIDE AIR DUCT DOWN
		SUPPLY DUCT DOWN
		EXHAUST DUCT DOWN
		ROUND DUCT UP
		LOWER DUCT DOWN
R		RAISE DUCT UP
R		LOWER DUCT DOWN
		FLEXIBLE DUCT CONNECTION
		PARALLEL BLADE DAMPER
		OPPOSED BLADE DAMPER
	AP	ACCESS PANEL
		EXISTING EQUIPMENT TO BE REMOVED
		EXISTING EQUIPMENT TO REMAIN
		NEW EQUIPMENT
T / RTU-1	T-STAT	WALL MOUNTED THERMOSTAT MECHANICAL EQUIPMENT CONTROLLED
S		WALL MOUNTED TEMP. SENSOR
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
MA		MIXED AIR
FA		FRESH AIR
RF		RELIEF AIR

SYMBOL	ABR.	DESCRIPTION
WET SIDE		
		UNION
		MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)
M		ELECTRIC MOTOR ACTUATOR
		BUTTERFLY VALVE
		GATE VALVE
		GLOBE VALVE - STRAIGHT PATTERN
		GLOBE VALVE - ANGLE PATTERN
M		MOTORIZED 2-WAY CONTROL VALVE
M		MOTORIZED 3-WAY CONTROL VALVE
		CHECK VALVE
	PRV	PRESSURE REDUCING VALVE
	CBV	CIRCUIT BALANCING VALVE
	BV	BALL VALVE
		NEEDLE VALVE
		AUTOMATIC AIR VENT
		MANUAL AIR VENT
		STRAINER
		STRAINER W/ PLUGGED BLOW OFF
	VTI	VENTURI
		PRESSURE GAUGE AND GAUGE COCK - WATER
		THERMOMETER AND THERMOWELL
		DIRECTION OF FLOW

SYMBOL	ABR.	DESCRIPTION
WET SIDE CONT		
		PITCH DOWN
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		EXISTING PIPING TO BE REMOVED
		EXISTING PIPING TO REMAIN
		NEW PIPING
		PIPE CAP OR PLUG
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
G		NATURAL GAS PIPING
	CW	CULINARY COLD WATER
	HW	CULINARY HOT WATER
DR		EQUIPMENT DRAIN
HWS		HEATING WATER SUPPLY
HWR		HEATING WATER RETURN

GENERAL NOTES:

MG-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

MG-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

MG-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS, OR EXISTING PIPING, EQUIPMENT, CONNECTION POINTS ETC.

MG-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR CORE DRILLS THROUGH STRUCTURE.

MG-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

MG-6 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

MG-7 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

MG-8 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

MG-9 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

MG-10 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

MG-11 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

MG-12 C.F.M. LISTED IS ACTUAL AIR.

MG-13 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

MG-14 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

MG-15 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND STATE INSPECTORS.

MG-16 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

MG-17 ALL PIPING, MATERIALS, ETC. SHALL BE NEW AND DOMESTIC MADE.

PLUMBING GENERAL NOTES:

PG-1 ALL PLUMBING SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

PG-2 ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC PIPING SHALL BE ALLOWED ONLY WHERE SHOWN.

PG-3 GAS PIPING INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH QUESTAR REGULATIONS, NFPA CODE REQUIREMENTS, AND STATE INSPECTORS.

PG-4 ALL MATERIALS SHALL BE NEW AND SHALL BE DOMESTIC MADE.

PG-5 PROVIDE VACUUM BREAKERS AND BACK FLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE THERE MAY BE ANY POSSIBLE CHANCE FOR CROSS CONTAMINATION. PREVENTERS SHALL BE INSTALLED IN ACCORDANCE WITH IPC WITH UTAH ANNOTATIONS.

PG-6 ALL PLUMBING INFORMATION IS NOT LIMITED TO THE PLUMBING DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL DRAWING, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS, AND ELECTRICAL DRAWINGS.

PG-7 THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL PIPING SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

PG-8 COORDINATE ALL PIPING AND PLUMBING EQUIPMENT WITH ALL OTHER TRADES AND/OR CONTRACTORS PRIOR TO INSTALLATION.

PG-9 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO CHANGES FOR APPROVAL. CONTRACTOR SHALL NOT START ANY CHANGES UNTIL NOTIFIED IN WRITING. IF CHANGES ARE MADE PRIOR TO APPROVAL CONTRACTOR SHALL TAKE ALL RESPONSIBILITY FOR THE CHANGES MADE AND ALL COSTS RELATING TO FAILURE OR REPLACEMENT OF ALTERATIONS.

PG-10 GAS LINE FITTINGS SHALL BE STANDARD WELD OR SCREW FITTINGS WITH TAPERED REDUCERS. DO NOT USE VALVES OR UNIONS, IN GAS LINES ROUTED IN INACCESSIBLE CONCEALED SPACES.

PG-11 ALL WATER SYSTEMS SHALL MEET THE REQUIREMENTS OF ANSI/NSF STANDARD 61, CONCERNING METAL CONTAMINANTS IN THE WATER SYSTEM.

PG-12 WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING INSULATION ENVELOPE.

PLUMBING LEGEND

MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE	
COLD WATER LINE	
VENT LINE	
WASTE LINE	
GAS LINE	G
VENT THRU ROOF	VTR
CONNECTION TO EXISTING PIPING	
WALL CLEANOUT	WCO
CLEANOUT	CO
CLEANOUT TO GRADE	COTG
FLOOR CLEANOUT	FCO
BALL VALVE	
UNION	
AIR LINE	A
POINT OF REMOVAL	

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MARK	DATE	DESCRIPTION

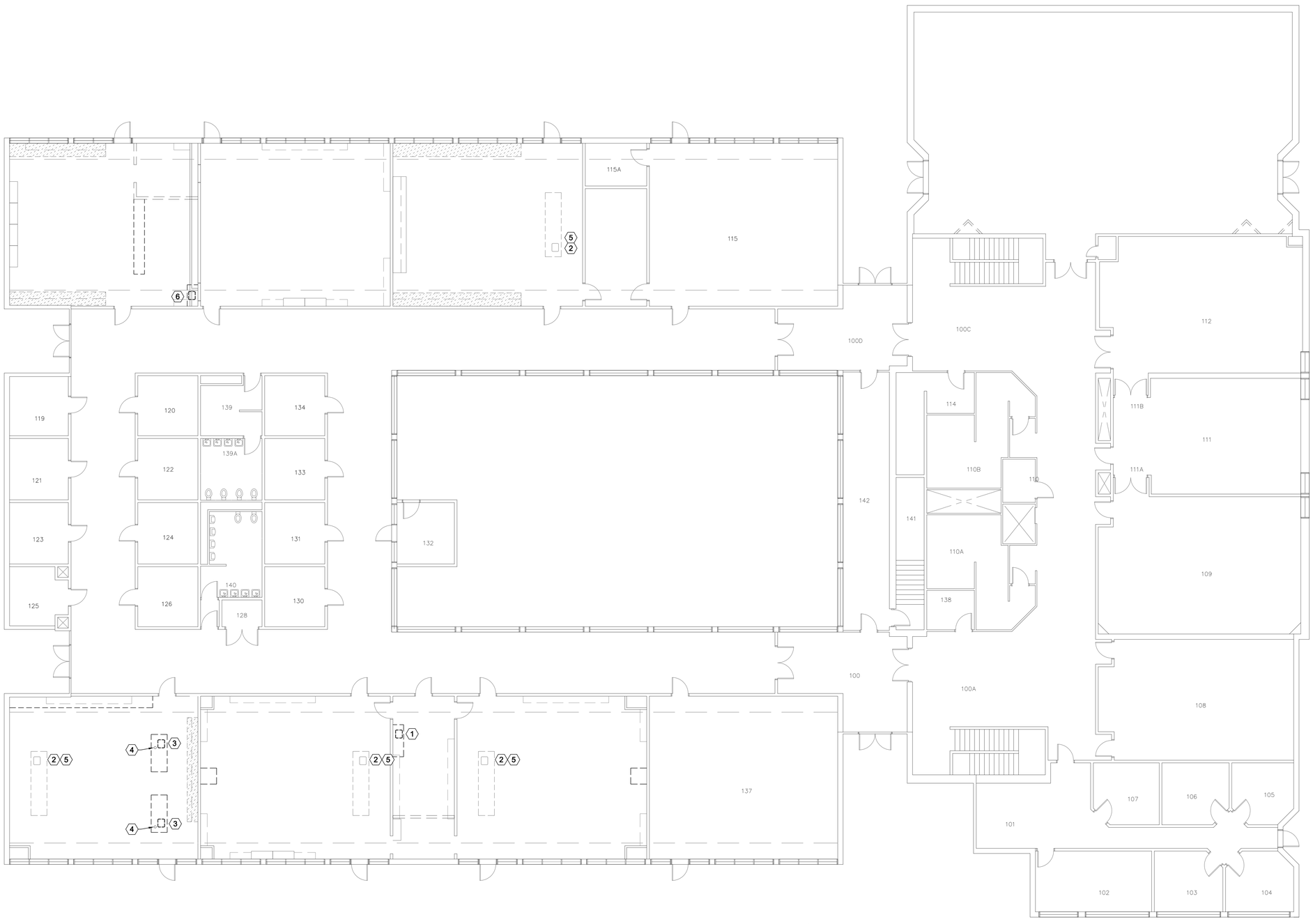
DATE:	10 JANUARY 2008
PROJECT NO:	06163660
HFSA PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	STAFF
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL AND PLUMBING GENERAL NOTES AND LEDGENDS

MP001

SHEET 1 OF 10



SHEET NOTES:

1. REMOVE EXISTING SINK. EXTEND EXISTING WATER, WASTE, AND VENT LINES TO USE FOR NEW SINK.
2. REMOVE EXISTING SINK, WASTE, VENT AND WATER PIPING. RE-USE EXISTING PIPING FOR NEW SINK.
3. REMOVE EXISTING FAUCETS, WASTE, VENT, WATER PIPING SERVING ISLAND SINKS. CAP UNDER FLOOR.
4. REMOVE EXISTING GAS PIPING AND CABINET TOP GAS TURRETS. CAP PIPING UNDER FLOOR.
5. EXISTING WASTE, VENT, WATER AND GAS PIPING SHALL BE DISCONNECTED FROM EXISTING SINK AND RECONNECTED TO NEW SINK IN SAME LOCATION.
6. REMOVE EXISTING SINK, CABINET, WASTE, VENT AND WATER PIPING. CAP PIPING INSIDE WALL OR UNDER FLOOR.

FIRST FLOOR PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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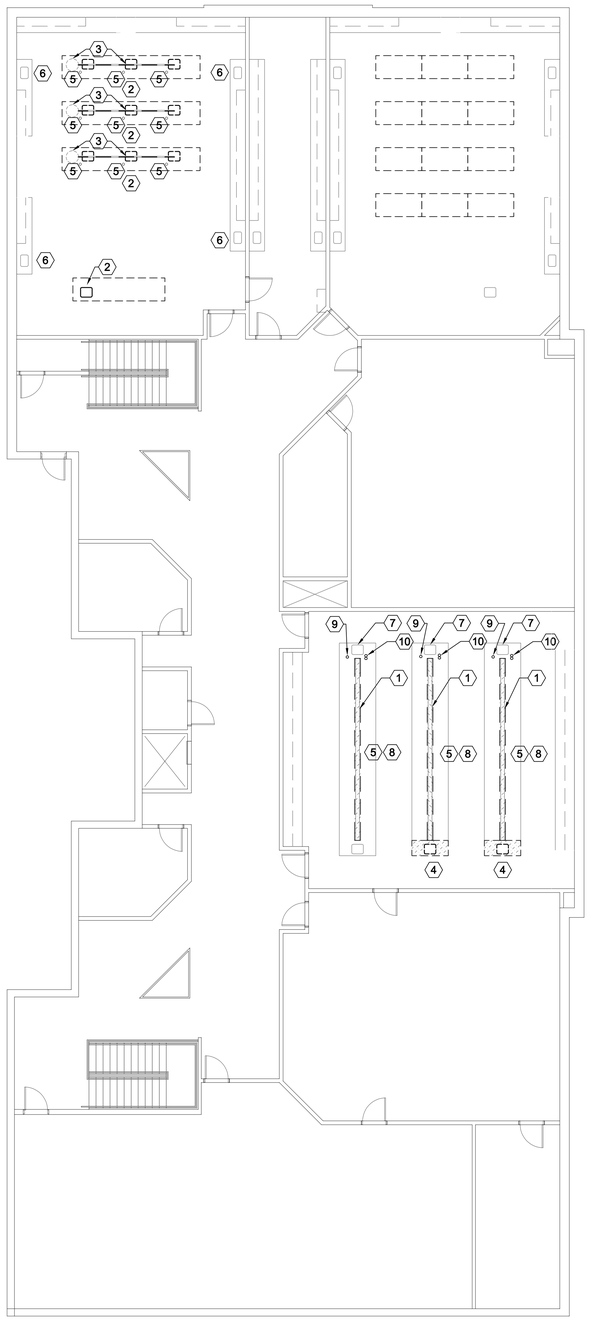
FIRST FLOOR PLUMBING DEMOLITION PLAN

PD101

SHEET 2 OF 10



SECOND FLOOR PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. REMOVE COMPRESSED AIR, WATER, AND GAS PIPING ABOVE TABLE TOP LEVEL.
2. REMOVE ALL HOT, COLD AND GAS PIPING LOCATED UNDER CABINETS AND CAP ALL PIPING UNDER FLOOR. REMOVE ALL FAUCETS.
3. REMOVE EXISTING WASTE AND VENT PIPING FROM UNDER CABINETS TO AND INCLUDING NEUTRALIZATION TANK. CAP WASTE PIPING UNDER FLOOR IN CEILING SPACE OF FIRST FLOOR.
4. REMOVE WATER PIPING, FAUCET, WASTE, TRAP, VENT ETC FROM UNDER AND ABOVE CABINETRY. CAP PIPING UNDER FLOOR IN CEILING SPACE OF FIRST FLOOR.
5. REMOVE EXISTING GAS TURRETS AND VALVES.
6. EXISTING SINKS AND NEUTRALIZATION TANKS SHALL REMAIN.
7. ALL UTILITIES ENTER CABINETS ON NORTH END.
8. REMOVE EXISTING WATER AND AIR TURRETS, BASE AND VALVES.
9. REMOVE VACUUM BREAKERS AND RE-DO WATER PIPING TO BE ROUTED UNDER TABLE.
10. PATCH HOLES IN COUNTER TOPS WHERE PIPING HAS BEEN REMOVED FOR WATER, AIR AND GAS.

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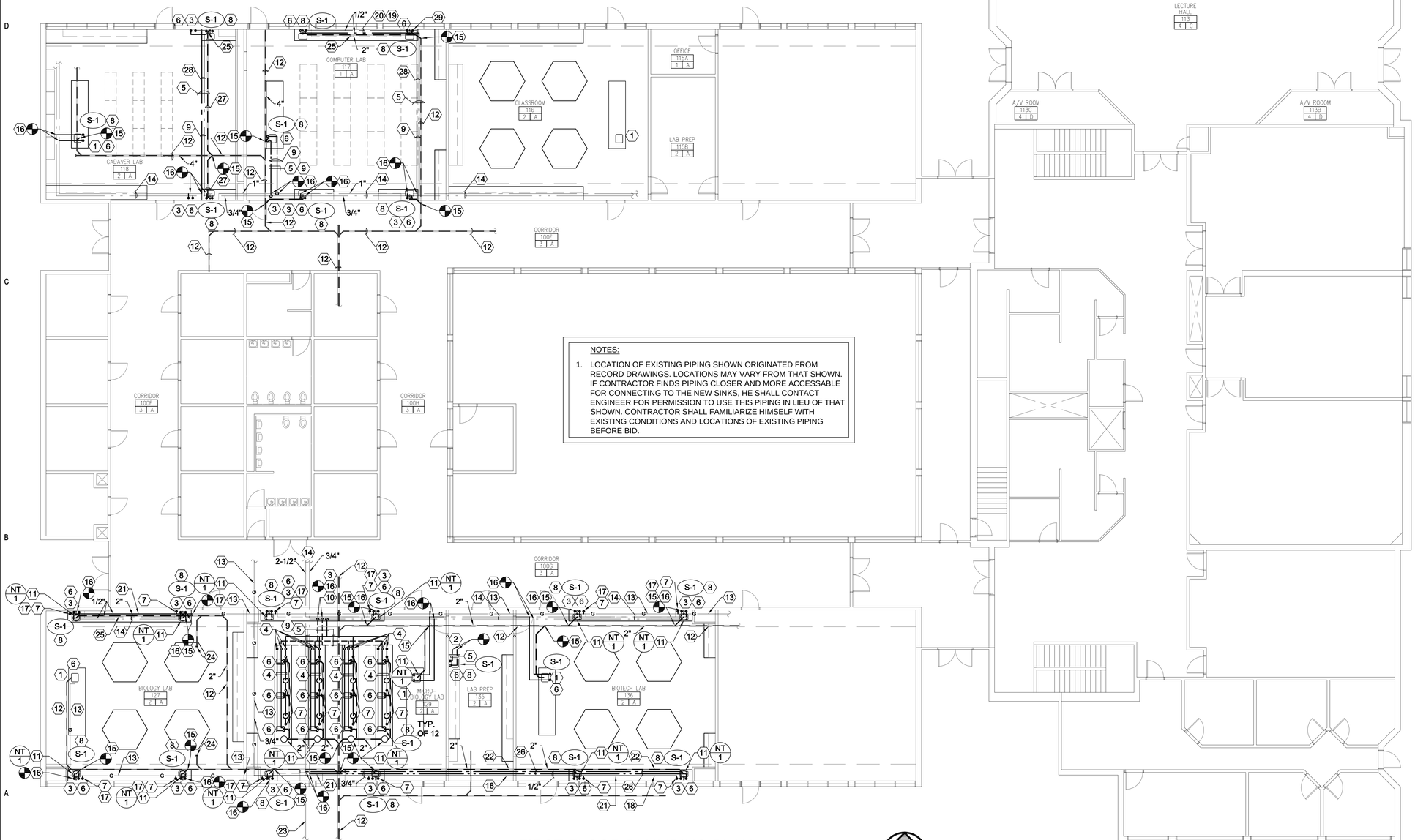
SECOND FLOOR PLUMBING DEMOLITION PLAN

PD102

SHEET 3 OF 10



NOTES:

1. LOCATION OF EXISTING PIPING SHOWN ORIGINATED FROM RECORD DRAWINGS. LOCATIONS MAY VARY FROM THAT SHOWN. IF CONTRACTOR FINDS PIPING CLOSER AND MORE ACCESSABLE FOR CONNECTING TO THE NEW SINKS, HE SHALL CONTACT ENGINEER FOR PERMISSION TO USE THIS PIPING IN LIEU OF THAT SHOWN. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND LOCATIONS OF EXISTING PIPING BEFORE BID.

FIRST FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. NEW SINK IN TEACHER ISLAND CONNECT TO EXISTING HOT, COLD, WASTE, AND VENT PIPING.
2. CONNECT NEW SINK TO EXISTING EXTENDED PLUMBING UTILITIES IE HOT WATER, COLD WATER, WASTE AND VENT, UNDER FLOOR.
3. PIPING DROPS TO TUNNELS BELOW.
4. RISE UP HOT WATER, COLD WATER, AND GAS PIPING IN END OF NEW CABINETS. ROUTE PIPING TO EACH SINK WITHIN CABINETRY.
5. ROUTE PIPING UNDER FLOOR IN CUTS SHOWN ON ARCHITECTURAL PLANS.
6. PROVIDE WITH AIR ADMITTANCE STUDOR VALVE.
7. PROVIDE COUNTER TOP MOUNTED GAS BASE, TURRET AND VALVE. SEE SPECIFICATIONS.
8. PROVIDE GOOSENECK FAUCET AND WRIST BLADE HANDLES FOR EACH SINK. SEE SPECIFICATIONS.
9. ALL NEW WATER AND GAS PIPING BURIED UNDER THE FLOOR SHALL BE ENCASED IN SCHEDULE 40 PVC PIPING.
10. PROVIDE STRAINER AND PRV VALVE IN HOT AND COLD WATER PIPING SERVING THE SINKS IN MICRO BIOLOGY LAB 129. LOCATE IN TUNNEL SPACE.
11. PROVIDE NEUTRALIZATION TANKS INSIDE COUNTER AT END OF CABINET AND UNDER SINKS AS SHOWN.
12. EXISTING SEWER AND WASTE PIPING. FIELD VERIFY EXACT LOCATION.
13. EXISTING GAS PIPING. FIELD VERIFY EXACT LOCATION.
14. EXISTING HOT AND COLD CULINARY WATER PIPING. FIELD VERIFY EXACT LOCATION.
15. CONNECT TO EXISTING SEWER AND WASTE PIPING AT THIS APPROXIMATE LOCATION. FIELD VERIFY LOCATION OF NEW TIE-IN.
16. CONNECT TO EXISTING CULINARY HOT AND COLD WATER PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY LOCATION OF NEW TIE-IN.
17. CONNECT TO EXISTING GAS PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY LOCATION OF NEW TIE-IN.
18. NEW GAS PIPING ROUTE IN TUNNEL. ALL JOINTS SHALL BE WELDED IN TUNNEL.
19. NEW COLD WATER PIPING ROUTED IN CABINET SPACE TO NEW SINKS.
20. NEW HOT WATER PIPING ROUTED IN CABINET SPACE TO NEW SINKS.
21. NEW GAS PIPING ROUTED IN CABINET SPACE TO NEW TURRETS.
22. NEW WASTE PIPING ROUTED IN TUNNEL BELOW.
23. EXISTING 2-1/2" CULINARY WATER SUPPLY TO BUILDING. FIELD VERIFY EXACT LOCATION.
24. CAP EXISTING WASTE, WATER AND GAS UNDER FLOOR.
25. ROUTE NEW 2" WASTE IN CABINET SPACE TO EXISTING WASTE PIPING.
26. NEW HOT AND COLD CULINARY WATER PIPING ROUTED IN TUNNEL. FIELD VERIFY ROUTING.
27. ROUTE NEW WASTE PIPING UNDER FLOOR IN CUT FLOOR PROVIDED BY ARCHITECT.
28. ROUTE NEW CULINARY HOT AND COLD WATER PIPING UNDER FLOOR IN CUT PROVIDED BY ARCHITECT. ENCASE IN SCHEDULE 40 PVC.
29. RISE UP CULINARY HOT AND COLD WATER PIPING AND RUN IN CABINET TO NEW SINKS.

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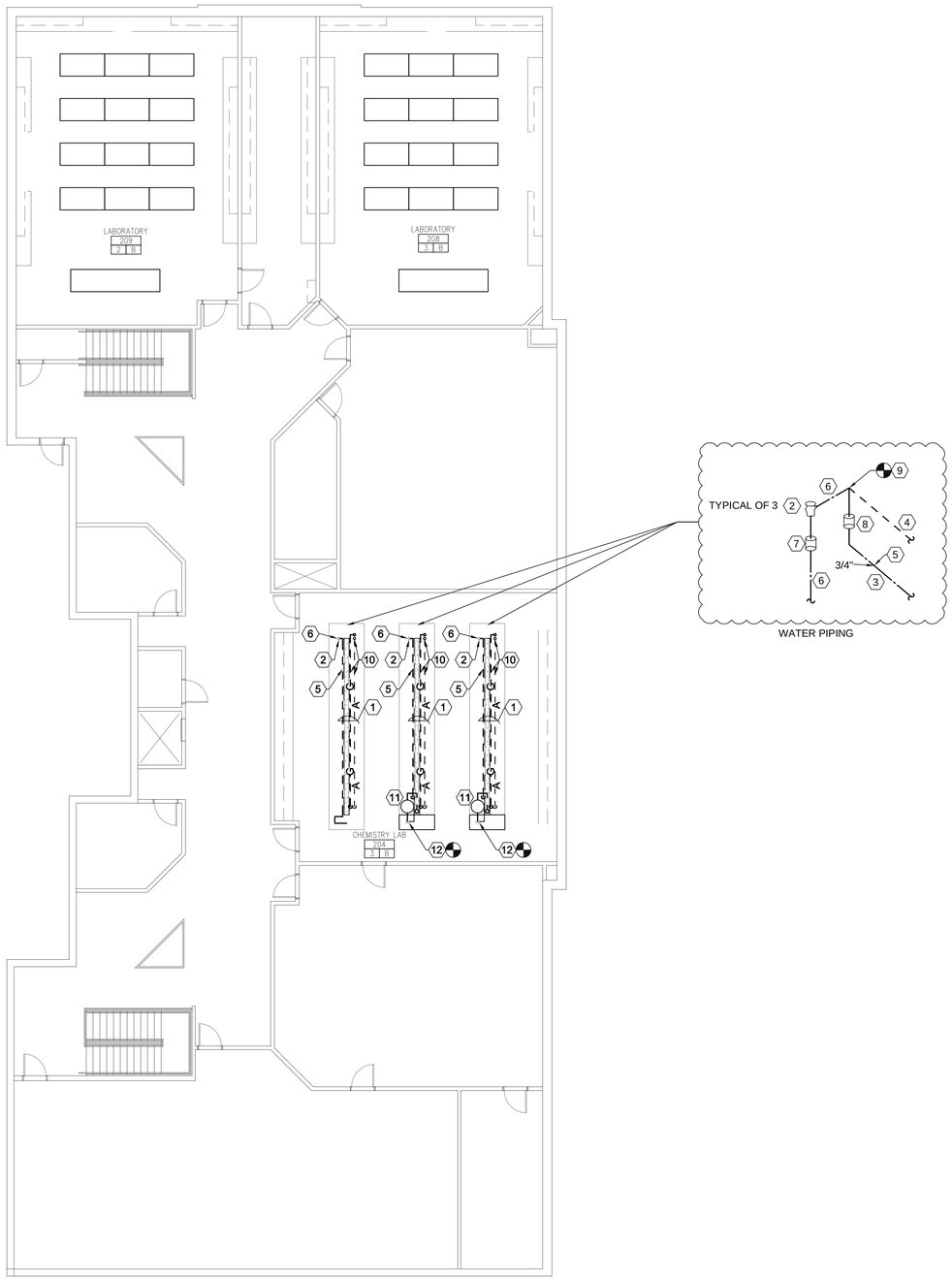
FIRST FLOOR PLUMBING PLAN

PE101

SHEET 4 OF 10



SECOND FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. PIPING TO BE ROUTED UNDER TABLE IN BOTTOM ACCESS OF CABINETRY. SEE DETAIL D5 SHEET ME501.
2. PROVIDE NEW VACUUM BREAKERS ON WATER SUPPLY TO SINKS AND TURRETS.
3. ROUTE UNDER COUNTER.
4. EXISTING WATER ABOVE COUNTER SHALL BE REMOVED.
5. NEW 3/4"Ø WATER PIPING.
6. EXISTING WATER PIPING FROM BELOW FLOOR SHALL REMAIN.
7. EXISTING COUNTER TOP PENETRATION.
8. NEW COUNTER TOP PENETRATION. CORE DRILLING BY MECHANICAL CONTRACTOR.
9. CONNECT TO EXISTING WATER PIPING AT THIS LOCATION.
10. EXISTING COMPRESSED AIR AND GAS PIPING ORIGINATE UNDER THE SINK CABINET. PUNCH THROUGH EXISTING WOOD PARTITION AND ROUTE NEW 3/4"Ø PIPING UNDER COUNTER. PATCH EXISTING OPENINGS IN COUNTER TOP. TWO PER TABLE.
11. RELOCATE EXISTING NEUTRALIZATION TANK NORTH AS SHOWN. CUT NEW 2"Ø HOLE IN BOTTOM OF EXISTING TROUGH DRAIN CIW STRAINER. EXTEND NEW 2"Ø ACID RESISTANT PIPING TO EXISTING RELOCATED TANK. EXTEND DRAIN LINE FROM NEW RELOCATED TANK TO EXISTING DROP THROUGH FLOOR.
12. CONNECT TO EXISTING WASTE AND VENT UNDER COUNTER

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ST. GEORGE, UT 84770

MARK	DATE	DESCRIPTION

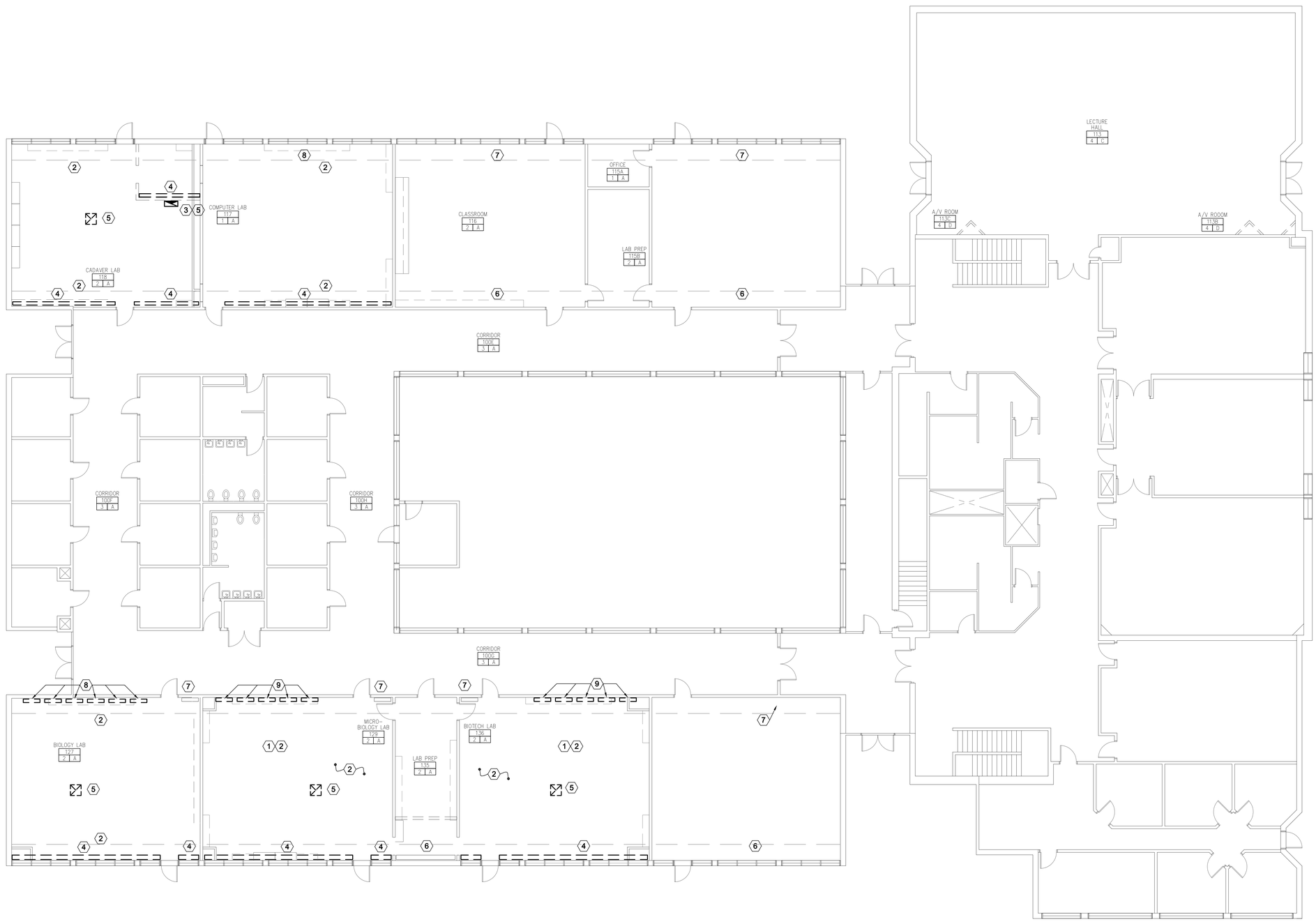
DATE:	10 JANUARY 2008
PROJECT NO:	06163660
HFSA PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	STAFF
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

SECOND FLOOR PLUMBING PLAN

PE102

SHEET 5 OF 10



FIRST FLOOR MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. REMOVE ANY EXISTING RETURN AND SUPPLY DUCT LOCATED UNDER STADIUM SEATING.
2. CAP EXISTING SUPPLY AND RETURN DUCT PENETRATING THROUGH FLOOR EXCEPT WHERE NEW RETURN AND SUPPLY PENETRATIONS ARE SHOWN ON SHEET ME101.
3. REMOVE EXISTING EXHAUST DUCT TO CADAVER WORK STATION. CAP DUCT BELOW ROOF.
4. REMOVE EXISTING CABINET CONVECTOR AND PIPING. CAP HOT WATER SUPPLY AND RETURN UNDER FLOOR. SEE ARCHITECTURAL FOR FLOOR PATCHING.
5. REMOVE ROOF MOUNTED EXHAUST FAN, DUCTWORK AND GRILLE. PROVIDE SHEET METAL COVER OVER EXISTING CURB AND SEAL AIR AND WATER TIGHT.
6. EXISTING CONVECTORS SHALL REMAIN.
7. EXISTING RETURN AIR FLOOR GRILLES AT THIS LOCATION SHALL REMAIN.
8. REMOVE RETURN AIR FLOOR GRILLES WHERE GRILLES ARE LOCATED UNDER COUNTER. HOLES IN FLOOR SHALL REMAIN OPEN.
9. REMOVE EXISTING STADIUM RETURN AIR GRILLES AND DUCTWORK IF NOT A PLENUM. OPENINGS IN FLOOR TO TUNNEL SHALL REMAIN OPEN.

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01/29/08
WINWARD M. PACKER
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STATE OF UTAH

DIXIE STATE COLLEGE SCIENCE BUILDING REMODEL

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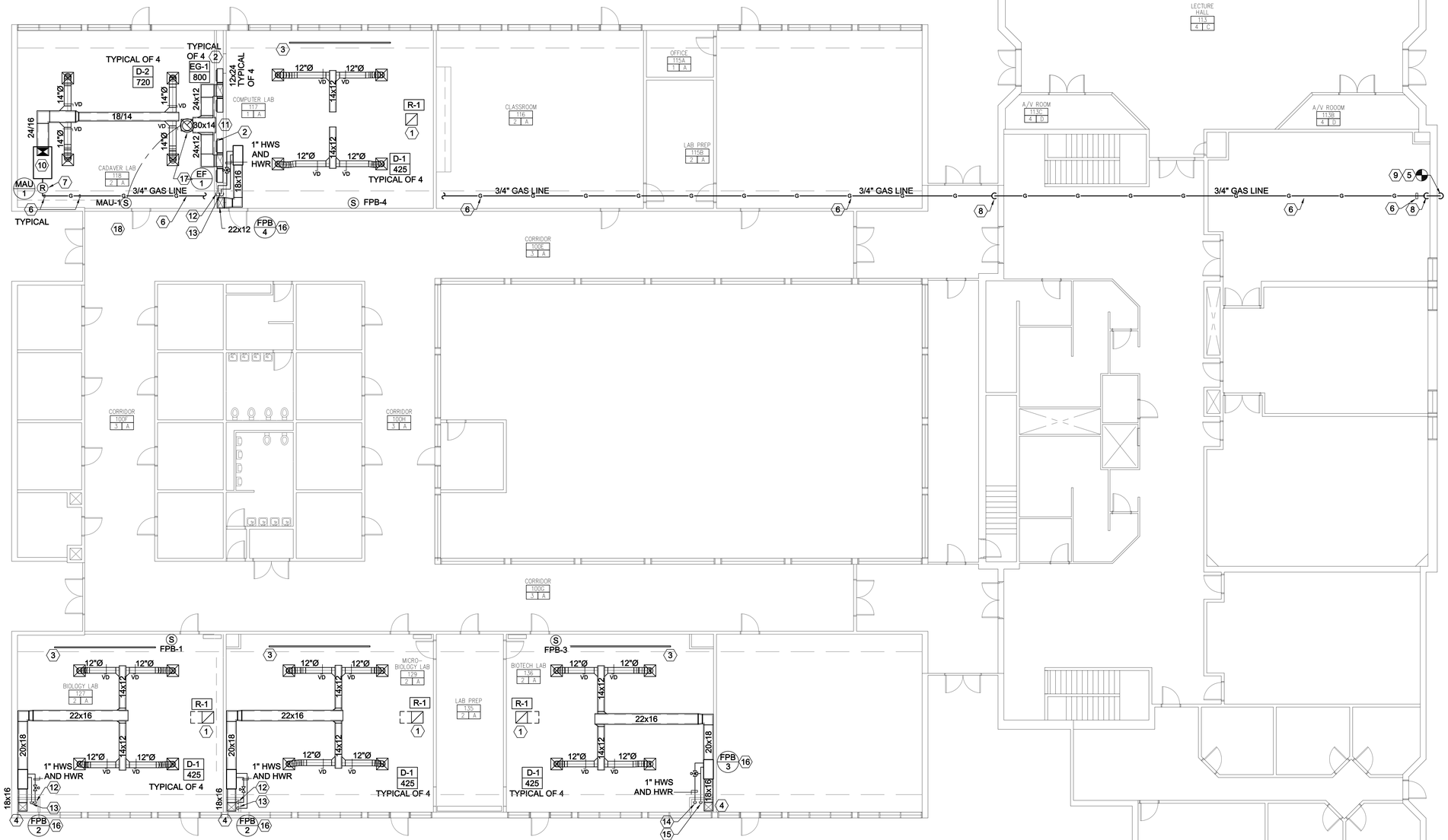
FIRST FLOOR MECHANICAL DEMOLITION PLAN

MD101

SHEET 6 OF 10



FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. PROVIDE RETURN GRILLES WITH SOUND BOOT. SEE DETAIL C1/MP501.
2. PROVIDE A LOW SIDEWALL EXHAUST GRILLE PER CADAVER TABLE. COORDINATE GRILLE LOCATION IN ACCORDANCE WITH CADAVER TABLE LOCATION AND SIZE. BOTTOM OF GRILLE TO BE 12" ABOVE FINISHED FLOOR. SEE DETAIL A5/MP501.
3. PROVIDE LINEAR RETURN GRILLES IN TOE SPACE OF CABINETRY TO RETURN TUNNEL.
4. PROVIDE A 22X22 SUPPLY AIR DUCT UP NEW CHASE TO CEILING. SEE ARCHITECTURAL PLANS. GENERAL CONTRACTOR SHALL CUT HOLE IN EXISTING FLOOR.
5. CONNECT TO EXISTING GAS METER. FIELD VERIFY EXACT LOCATION. CONTRACTOR SHALL VERIFY WITH QUESTAR GAS TO DETERMINE IF EXISTING METER WILL HAVE THE CAPACITY FOR AN ADDITIONAL 274 CFH. PROVIDE NEW METER IF REQUIRED.
6. PROVIDE ROOF MOUNTED GAS SUPPORTS AT 6'-0" ON CENTER. SEE DETAIL B5/MP501.
7. GAS CONNECTION TO ROOF MOUNTED MAKE UP AIR UNIT. SEE DETAIL A3/MP501.
8. GAS PIPING DROP.
9. GAS PIPING RISER FROM METER SHALL BE ROUTED NEXT TO EXISTING RISER. SUPPORTED FROM WALL AT 6'-0" ON CENTER. PAINT SAME COLOR AS EXISTING RISER.
10. MOUNT MAKE-UP AIR UNIT OVER STRUCTURAL AND SUPPORT WALLS. MOUNT ON NEW INSULATED ROOF CURB.
11. EXHAUST DUCT LOCATED IN CEILING SHALL BE WRAPPED.
12. CONNECT NEW 1"Ø HWS TO EXISTING 2"Ø HWS UNDER FLOOR IN TUNNEL. RISE UP IN NEW CHASE AND ROUTE TO RE-HEAT COIL IN FAN POWERED BOX. FIELD VERIFY EXISTING PIPING BOTH FOR SIZE AND LOCATION. SEE UNDER FLOOR PIPING PLAN SHEET ME102.
13. CONNECT NEW 1"Ø HWR TO EXISTING 1-1/4" HWR UNDER FLOOR IN TUNNEL. RISE UP IN NEW CHASE AND ROUTE TO RE-HEAT COIL IN FAN POWERED BOX. FIELD VERIFY EXISTING PIPING BOTH FOR SIZE AND LOCATION. SEE UNDER FLOOR PIPING PLAN SHEET ME102.
14. CONNECT NEW 1"Ø HWS TO EXISTING 1-1/4"Ø HWS UNDER FLOOR IN TUNNEL. RISE UP IN NEW CHASE AND ROUTE TO RE-HEAT COIL IN FAN POWERED BOX. FIELD VERIFY EXISTING PIPING BOTH FOR SIZE AND LOCATION. SEE UNDER FLOOR PIPING PLAN SHEET ME102.
15. CONNECT NEW 1"Ø HWR TO EXISTING 2" HWR UNDER FLOOR IN TUNNEL. RISE UP IN NEW CHASE AND ROUTE TO RE-HEAT COIL IN FAN POWERED BOX. FIELD VERIFY EXISTING PIPING BOTH FOR SIZE AND LOCATION. SEE UNDER FLOOR PIPING PLAN SHEET ME102.
16. SEE DETAIL A1/MP501 FOR COIL PIPING DETAIL.
17. EXHAUST FAN ROOF MOUNTED. SEE DETAIL C5/MP501.
18. CADAVER LAB EXHAUST FAN SHALL BE INTERLOCKED WITH MAKE-UP AIR UNIT. EXHAUST FAN SHALL OPERATE WHENEVER THE MAKE-UP AIR UNIT IS ON. EXHAUST FAN SHALL BE OFF WHEN MAKE UP AIR UNIT IS OFF.

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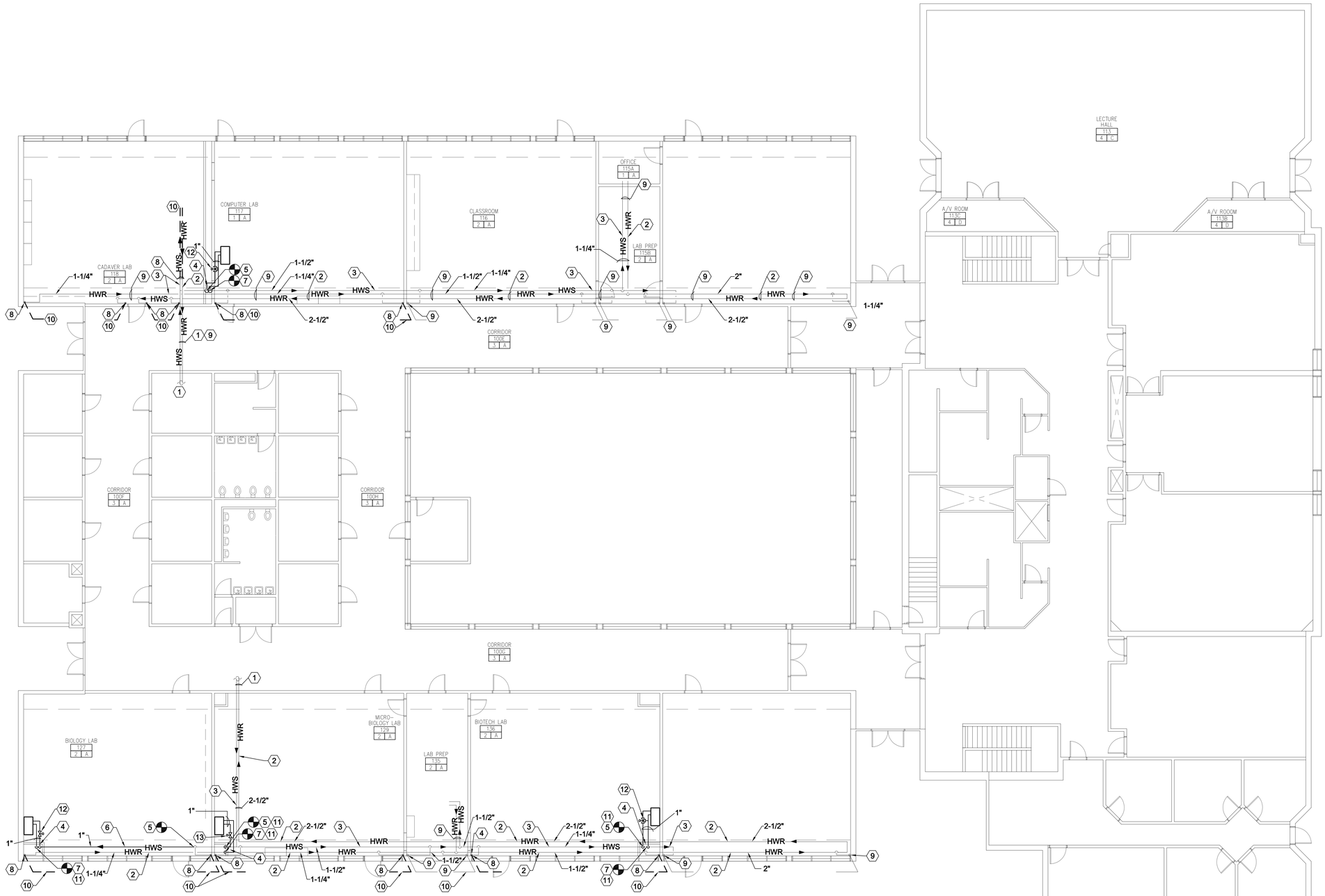
FIRST FLOOR MECHANICAL PLAN

ME101

SHEET 7 OF 10



FIRST FLOOR MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. EXISTING HWS AND HWR FROM EQUIPMENT ROOM ROUTED IN TUNNEL.
2. EXISTING HWR IN TUNNEL.
3. EXISTING HWS IN TUNNEL.
4. NEW 1" HWS AND 1" HWR RISE IN NEW SHAFT TO NEW REHEAT COILS LOCATED IN FAN POWERED BOXES.
5. CONNECT NEW 1" HWS TO EXISTING HWS IN THIS LOCATION. FIELD VERIFY LOCATION OF TIE-IN.
6. NEW 1" HWS IN TUNNEL.
7. CONNECT NEW 1" HWR TO EXISTING HWR IN THIS LOCATION. FIELD VERIFY LOCATION OF TIE-IN.
8. CAP EXISTING HWS AND HWR IN THIS LOCATION.
9. EXISTING HWS AND HWR SHALL REMAIN.
10. REMOVE ALL HWS AND HWR PIPING, VALVES, RISERS ETC.
11. PROVIDE 2'-0" EXPANSION SWING JOINT AT EACH NEW HWS AND HWR CONNECTION TO RISERS.
12. 3-WAY CONTROL VALVE.
13. 2-WAY CONTROL VALVE.

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FIRST FLOOR MECHANICAL PIPING PLAN

ME102

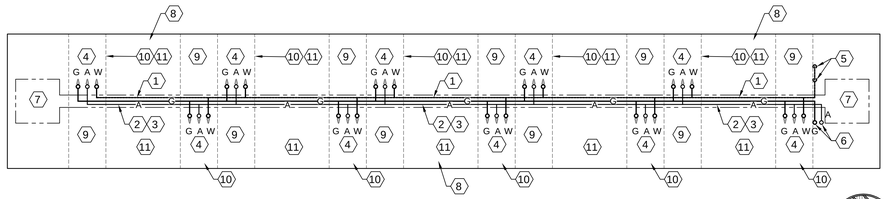
SHEET 8 OF 10

SHEET NOTES:

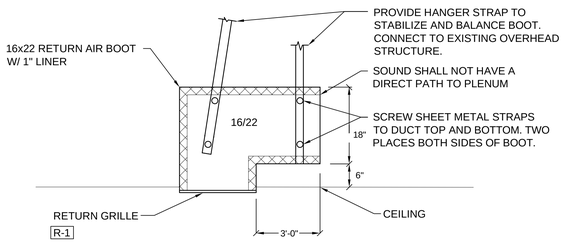
1. 3/4"Ø WATER ROUTED UNDER EXISTING COUNTER. SEE SECTION D5 THIS SHEET.
2. 3/4"Ø AIR ROUTED UNDER EXISTING COUNTER. LOCATE ABOVE GAS PIPING. SEE SECTION D5 THIS SHEET.
3. 3/4"Ø GAS ROUTED UNDER EXISTING COUNTER. LOCATE BELOW AIR PIPING. SEE SECTION D5 THIS SHEET.
4. DRILL THROUGH EXISTING COUNTER TOP. PROVIDE COUNTER MOUNTED TURRETS AND SERRATED VALVES FOR WATER, GAS, AND COMPRESSED AIR.
5. EXISTING WATER PROJECTION ABOVE TOP OF CABINET. PROVIDE NEW VACUUM BREAKER AND PROVIDE NEW PIPING BACK TO UNDER COUNTER. SEE DETAIL SHEET PE101.

SHEET NOTES:

6. CONNECT TO EXISTING AIR AND GAS PIPING UNDER COUNTER. PLUG HOLES IN COUNTER TOP WHERE EXISTING PIPING IS REMOVED.
7. EXISTING SINKS.
8. EXISTING WORK COUNTERTOP.
9. DRAWERS.
10. OPEN CLOSET IN CABINET.
11. LEG SPACE UNDER CABINET.



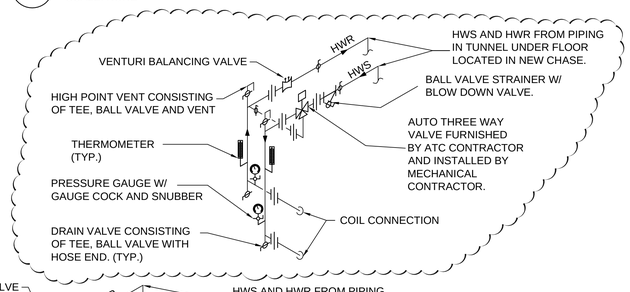
D1 TYPICAL TABLE TOP PIPING PLAN VIEW FOR CHEMISTRY LAB 204
SCALE: 1/2" = 1'-0"



C1 RETURN AIR BOOT DETAIL
SCALE: NONE

DUCT DIAMETER IN INCHES	MAXIMUM 2" W.G. STATIC POSITIVE		MAXIMUM 2" W.G. STATIC NEGATIVE	
	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE
3 thru 8	28	28	28	24
9 thru 14	28	26	26	24
15 thru 26	26	24	24	22
27 thru 36	24	22	22	20
37 thru 50	22	20	20	18

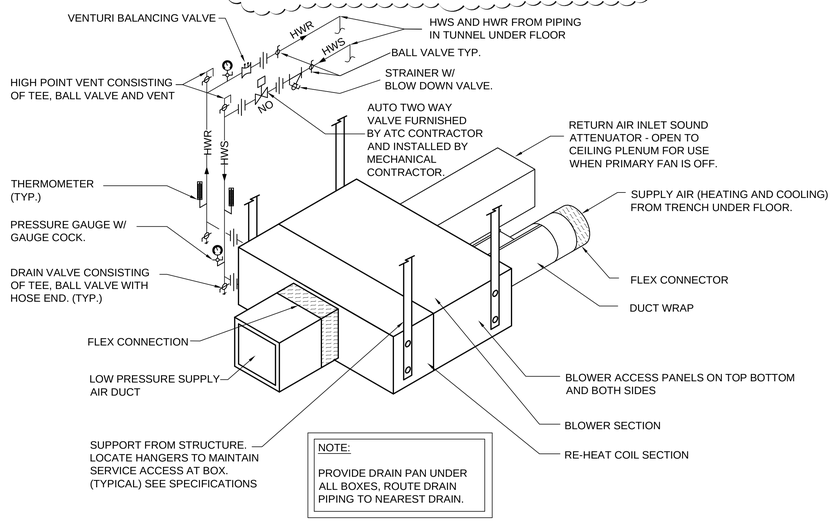
C3 LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE



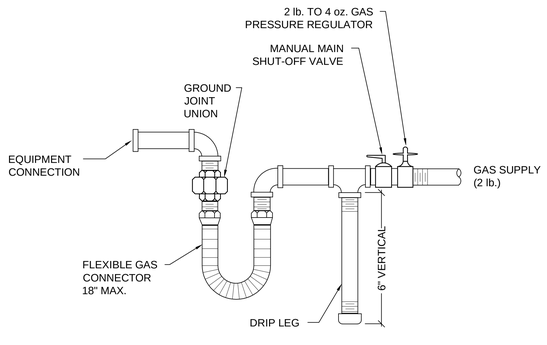
DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	TRANSVERSE REINFORCING (1)				
			MIN. H. IN.	AT JOINTS: DRIVE SLIP / PLAIN S SLIP	AT JOINTS: HEMMED S SLIP	AT JOINTS: ALTER'NT BAR SLIP	AT JOINTS: REIN-FORCED BAR SLIP
				RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"X1"X1/8" @ 60 IN	1	-	24	24	24
31 - 36	22	1"X1"X1/8" @ 60 IN	1	-	-	22	22

1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

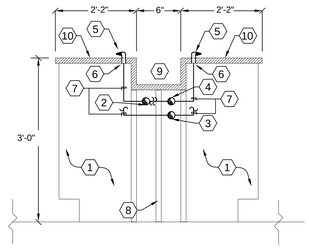
B3 DUCT CONSTRUCTION DETAIL
SCALE: NONE



A1 FAN POWERED BOX (W/ RE-HEAT COIL) DETAIL
SCALE: NONE



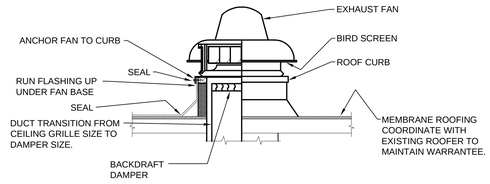
A4 GAS LINE CONNECTION DETAIL
SCALE: NONE



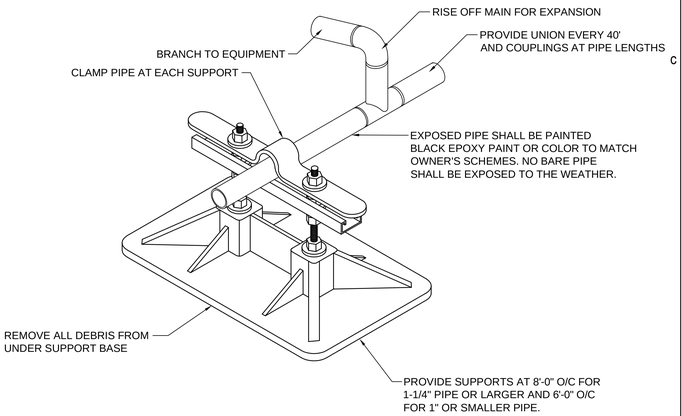
SHEET NOTES:

1. EXISTING LAB TABLES.
2. NEW 3/4" COLD WATER ROUTED IN VOID SPACE BETWEEN COUNTERS. SOURCE OF WATER SHALL BE THE SAME AS EXISTING, ORIGINATING UNDER THE NORTH SINK.
3. NEW 3/4" GAS PIPING, ROUTED IN VOID SPACE BETWEEN COUNTERS. SOURCE OF GAS PIPING SHALL BE THE SAME AS EXISTING, ORIGINATING UNDER THE NORTH SINK.
4. NEW 3/4" COMPRESSED AIR PIPING, ROUTED IN VOID SPACE BETWEEN COUNTERS. SOURCE OF AIR PIPING SHALL BE THE SAME AS EXISTING, ORIGINATING UNDER THE NORTH SINK.
5. NEW AIR, GAS AND WATER TURRETS. INSTALLED ON TOP OF EXISTING COUNTER TOPS. SEE PLAN VIEW THIS SHEET FOR LOCATIONS AND QUANTITY.
6. DRILL HOLES IN EXISTING COUNTER TOPS.
7. ROUTE PIPING IN BACK OF EVERY CABINET ON BOTH SIDES. SEE PLAN VIEW THIS SHEET. KEEP AS FAR BACK AS POSSIBLE.
8. EXISTING CENTER SUPPORTS
9. EXISTING 6" WIDE CENTER TROUGH.
10. EXISTING COUNTER TOPS SHALL REMAIN.

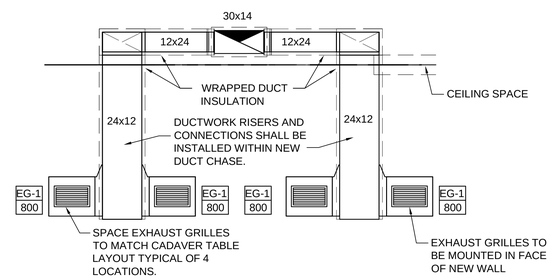
D5 ROOM 204 PIPING SECTION
SCALE: NONE



C5 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: NONE



B5 ROOF PIPING SUPPORT DETAIL
SCALE: NONE



A5 CADAVER AREA EXHAUST DETAIL
SCALE: NONE

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MECHANICAL AND PLUMBING DETAILS

MP501

SHEET 9 OF 10

EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M.	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR			OPER. WT. (LBS)	COMMENTS	SCHEDULE NOTES
						V - Ø - Hz	HP	RPM			
EF 1	COOK 195 ACEB	CADAVER LAB	3200	.25	9.5	115/1/60	1/2	1725	150		

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	CFM	E.S.P. IN W.G.	HEATING			COOLING			LDB	ELECTRICAL							UNIT WEIGHTS IN LBS.	MANUFACTURER MODEL NUMBER
			MBH INPUT	ENT. AIR TEMP.	AIR TEMP. RISE	MBH TOTAL	EADB	EAWB		EVAP. FAN HP	Ø	Hz	VOLTS	COMPRESSOR RLA (EACH)	MCA	MAX FUSE		
MA 1	2880	1.2	244	19	71	171	110	71	55	5	3	60	208	22.4	78	100	1900	AAON RM-015 (1)(2)(3)

(1) PROVIDE WITH MODULATING GAS VALVE.

(2) PROVIDE WITH HOT GAS BY-PASS.

(3) PROVIDE WITH DUAL MINIMUM POSITION ECONOMIZER.

FAN POWERED VAV BOX SCHEDULE

SYMBOL	SERVES	INLET DIA. (INCHES)	OUTLET (INCHES)	PRIMARY AIRFLOW		HEATING (40° DELTA T)							NC LEVEL	ELECT.	MANUF. & MODEL #	SCHEDULE NOTES
				MAX CFM	MIN CFM	COIL EAT	COIL LAT	COIL BTUH	FLOW GPM	EWT	ROWS	(FT) PD				
FPB 1	BIOLOGY LAB 127	14	20x18	1700	450	70	110	66000	6	180	2	4.84	31	1/2 HP 115/1/60	PRICE FDCQ2	1,2,3
FPB 2	MICRO-BIOLOGY LAB 129	14	20x18	1700	450	70	110	66000	6	180	2	4.84	31	1/2 HP 115/1/60	PRICE FDCQ2	1,2,3
FPB 3	BIO TECH LAB 136	14	20x18	1700	450	70	110	66000	6	180	2	4.84	31	1/2 HP 115/1/60	PRICE FDCQ2	1,2,3
FPB 4	COMPUTER LAB 117	14	20x18	1700	450	70	110	66000	6	180	2	4.84	31	1/2 HP 115/1/60	PRICE FDCQ2	1,2,3

1. PROVIDE WITH INLET AND OUTLET SOUND ATTENUATORS.
2. PROVIDE WITH ECM MOTORS.
3. FAN POWERED BOXES SHALL BE DESIGNED FOR SERIES FLOW WITH A MINIMUM 0.25" DISCHARGE SP.
4. NC IS RATED DISCHARGE NC AT 0.5" DELTA P.

REGISTER, LOUVER & GRILLE SCHEDULE

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	600	16/16	16/16	LAY-IN	1,2,3,4
R-2	TOE SPACE	RETURN	1700 CFM 105 CFM/L.F.	3"-17'	OPEN	CABINET TOE SPACE	1,3,5,6
EG-1	SIDEWALL	EXHAUST	800	24/14	24/14	NA	1,2,3,4

REGISTER. LOUVER AND DIFFUSER SCHEDULE NOTES:

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
4. FINISH SHALL BE STANDARD WHITE.
5. ALUMINUM FINISH FOR TOE SPACE GRILLES.
6. SHALL BE PRICE LBP/15 B WITH 1/2" BORDER.

DIFFUSER SCHEDULE

SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	CEILING	500	12X12	12"Ø	LAY-IN	4--WAY		1,2,3,4,5
D-2 CFM	CEILING	750	15X15	14"Ø	LAY-IN	4--WAY		1,2,3,4,5

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED.
3. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
4. DIFFUSER SHALL BE PRICE MODEL SMD OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.
5. FINISH SHALL BE STANDARD WHITE.

NEUTRALIZATION TANK SCHEDULE

SYMBOL	VOLUME GAL.	LENGTH	DIAMETER	WEIGHT LBS	INLET" OUTLET" VENT "	SCHEDULE NOTES
NT 1	5	16.25"	11"	9 LBS	2" 2" 2" SIDE	1,2

1. ORION STYLE 7
2. FOR OTHER APPROVED MANUFACTURER'S SEE SPECIFICATIONS.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	INDIVIDUAL LINE SIZES					REMARKS
		TRAP	WASTE	VENT	COLD WATER	HOT WATER	
S-1	SINK	2"	2"	1-1/2"	1/2"	1/2"	SINK BY OTHERS.

* PROVIDE NEW FAUCETS FOR ALL NEW SINKS. SEE SPECIFICATIONS

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HFSA PROJECT NO:	0647.01
CAD DWG FILE NO:	
DRAWN BY:	STAFF
CHECKED BY:	SW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL AND PLUMBING SCHEDULES

MP601

SHEET 10 OF 10

KEYED NOTES:

1. REMOVE EXISTING 4 FT, 2 LAMP SURFACE MOUNTED FLOURESCENT FIXTURE FROM EXISTING CEILING TO BE REMOVED INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC. NOTE 4 LAMP FIXTURES IN ROOMS 111 AND 135.
2. REMOVE EXISTING EXIT LIGHT FROM EXISTING CEILING TO BE REMOVED INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.
3. REMOVE EXISTING RECESSED INCANDESCENT FIXTURE FROM EXISTING CEILING TO BE REMOVED INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.
4. REMOVE EXISTING SWITCH FROM EXISTING WALL TO BE REMOVED INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.
5. REMOVE EXISTING SWITCH AND WIRING. ABANDON EXISTING OUTLET BOX IN EXISTING MASONRY WALL TO REMAIN TO BE COVERED BY NEW WALL FURRING WITH ALL WIRING REMOVED.
6. REMOVE EXISTING SURFACE MOUNTED LIGHT TRACK AND FIXTURES FROM EXISTING CEILING TO BE REMOVED INCLUDING ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.
7. REMOVE EXISTING SWITCH AND WIRING. PROVIDE BLANK COVERPLATE ON EXISTING OUTLET BOX.
8. REMOVE EXISTING 4 FT, 4 LAMP SURFACE MOUNTED FLOURESCENT FIXTURE. EXISTING OUTLET BOX AND CIRCUIT TO REMAIN FOR INSTALLATION OF NEW FIXTURE SHOWN ON SHEET EL101. CLEAN EXISTING CEILING PRIOR TO INSTALLATION OF NEW FIXTURES.
9. REMOVE EXISTING 4 FT, 1 LAMP WALL MOUNTED FLOURESCENT FIXTURE. EXISTING OUTLET BOX AND CIRCUIT TO REMAIN FOR INSTALLATION OF NEW FIXTURE SHOWN ON SHEET EL101. CLEAN EXISTING WALL PRIOR TO INSTALLATION OF NEW FIXTURES.

KEYED NOTES:

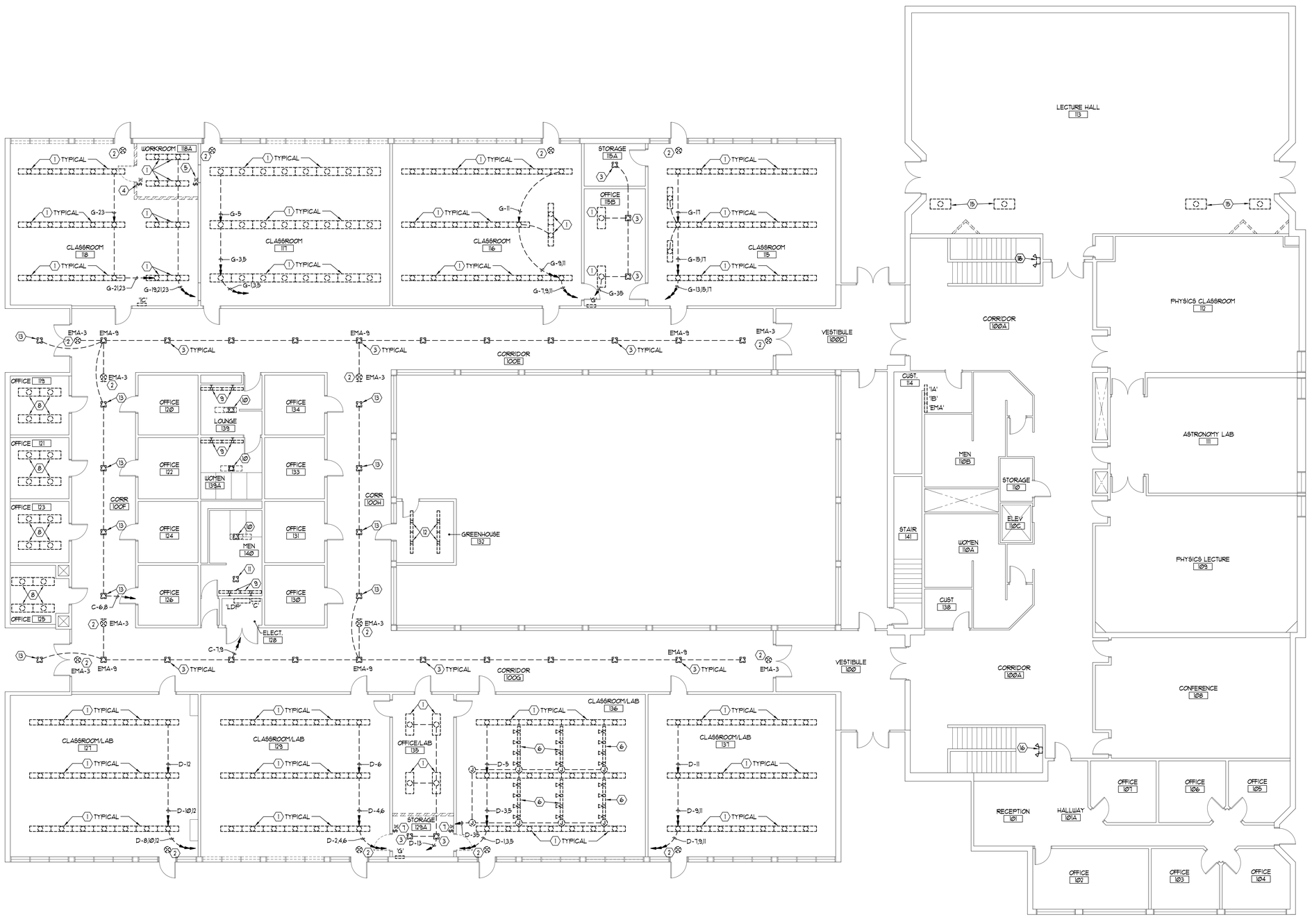
10. REMOVE EXISTING 4 FT, 2 LAMP SURFACE MOUNTED FLOURESCENT FIXTURE AND EXISTING RECESSED INCANDESCENT FIXTURE. PROVIDE NEW OUTLET BOX IN EXISTING CEILING FOR INSTALLATION OF NEW FIXTURE SHOWN ON SHEET EL101. REPAIR EXISTING CEILING AS REQUIRED TO MATCH SURROUNDING SURFACES.
11. REMOVE EXISTING RECESSED INCANDESCENT FIXTURE INCLUDING ABANDONED WIRING, CONDUIT, BOXES, ETC.. REPAIR EXISTING CEILING AS REQUIRED TO MATCH SURROUNDING SURFACES.
12. REMOVE EXISTING 4 FT, 1 LAMP SURFACE MOUNTED FLOURESCENT FIXTURE. EXISTING OUTLET BOX AND CIRCUIT TO REMAIN FOR INSTALLATION OF NEW FIXTURE SHOWN ON SHEET EL101. CLEAN EXISTING CEILING PRIOR TO INSTALLATION OF NEW FIXTURES.
13. REMOVE EXISTING RECESSED INCANDESCENT FIXTURE INCLUDING, ABANDONED WIRING, CONDUIT, BOXES, ETC.. PROVIDE NEW OUTLET BOX IN EXISTING CEILING FOR INSTALLATION OF NEW FIXTURE SHOWN ON SHEET EL101. REPAIR EXISTING CEILING AS REQUIRED TO MATCH SURROUNDING SURFACES.
14. REMOVE EXISTING RECESSED INCANDESCENT FIXTURE FROM EXISTING CEILING TO REMAIN. RETAIN EXISTING BRANCH CIRCUIT FOR CONNECTION TO NEW FIXTURE SHOWN ON SHEET EL101.
15. REMOVE EXISTING FIXTURES TO ALLOW INSTALLATION OF NEW WALLS. REMOVE ABANDONED WIRING, CONDUIT, BOXES, ETC.. RETAIN EXISTING CIRCUIT FOR CONNECTION TO NEW FIXTURES SHOWN ON SHEET EL101.
16. REMOVE EXISTING BATTERY EMERGENCY LIGHTING UNIT AND CONNECTION TO EXISTING WALL MOUNTED FLUORESCENT FIXTURE. REPAIR AND CLEAN EXISTING WALL AS REQUIRED TO MATCH SURROUNDING SURFACES.

GENERAL NOTES:

1. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, LIGHTING, SWITCHES, OUTLETS, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING BUILDING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
2. DEMOLITION PLAN IS SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, OUTLETS, FIXTURES, EQUIPMENT, ETC., WHETHER SPECIFICALLY SHOWN OR NOT.
3. REMOVE ALL EXISTING FIXTURES, OUTLETS, SWITCHES, ETC., SHOWN ON THE DEMOLITON PLAN, EXCEPT WHERE SPECIFICALLY NOTED TO REMAIN OR BE RELOCATED.
4. CONTRACTOR MAY USE EXISTING BRANCH CIRCUIT WIRING AND RACEWAYS WHERE CONVENIENT TO CONNECT TO NEW ELECTRICAL DEVICES ONLY IF THE EXISTING WIRING AND RACEWAYS ARE IN GOOD CONDITION AND MEET DIVISION 16 SPECIFICATION REQUIREMENTS FOR NEW WIRING AND RACEWAYS.
5. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT INTERRUPTS EXISTING BRANCH CIRCUITS OR FEEDERS TO EXISTING EQUIPMENT TO REMAIN, PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO RECONNECT THE EXISTING EQUIPMENT.

GENERAL NOTES:

6. ALL MATERIALS AND EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR STORAGE OR BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE OWNER.
7. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A3 1ST FLOOR LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0 4' 8' 16'

N

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

DATE:	30 JANUARY 2008
AGENCY PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	0730 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR LIGHTING DEMOLITION PLAN

ED101

SHEET 1 OF 9 (ELECT.)

KEYED NOTES:

1. EXISTING CEILING MOUNTED PROJECTOR AND ASSOCIATED CABLES TO BE REMOVED BY OWNER PRIOR TO BEGINNING OF DEMOLITION.
2. REMOVE EXISTING CEILING RECEPTACLE AND SURFACE RACEWAY FOR EXISTING CEILING PROJECTOR.
3. REMOVE SURFACE RACEWAY FOR EXISTING CEILING PROJECTOR.
4. REMOVE EXISTING RECEPTACLES AND ALL WIRING. ABANDON EMPTY OUTLET BOXES IN PLACE TO BE COVERED BY NEW CABINETS. PROVIDE BLANK COVERPLATE FOR OUTLET BOXES NOT CONCEALED BY CABINETS. EXTEND OUTLET BOX INTO BACK OF CABINET AND PROVIDE BLANK COVERPLATE IF EXISTING WIRING CANNOT BE COMPLETELY REMOVED.
5. REMOVE EXISTING RECEPTACLE AND SURFACE RACEWAY EXTENSION BOX. PROVIDE NEW RECEPTACLE AND COVERPLATE, AND NEW BRANCH CIRCUIT HOMERUN AS SHOWN ON SHEET EPØ1.
6. REMOVE EXISTING JUNCTION BOX INCLUDING CONDUITS INTO TUNNEL BELOW. SEAL EXISTING CONDUIT PENETRATIONS INTO FLOOR.
7. REMOVE EXISTING EXISTING FLOOR OUTLET RECEPTACLE, COVER, AND ALL WIRING. PROVIDE NEW BLANK COVER FOR EXISTING FLOOR OUTLET BOX. REMOVE FLOOR BOX WHERE REQUIRED TO SAWCUT EXISTING FLOOR FOR INSTALLATION OF NEW UNDERFLOOR UTILITIES.
8. EXISTING RECEPTACLE TO REMAIN, SHOWN CIRCUITING REFERENCE ONLY. RECONNECT CIRCUIT AS SHOWN ON SHEET EPØ1.

KEYED NOTES:

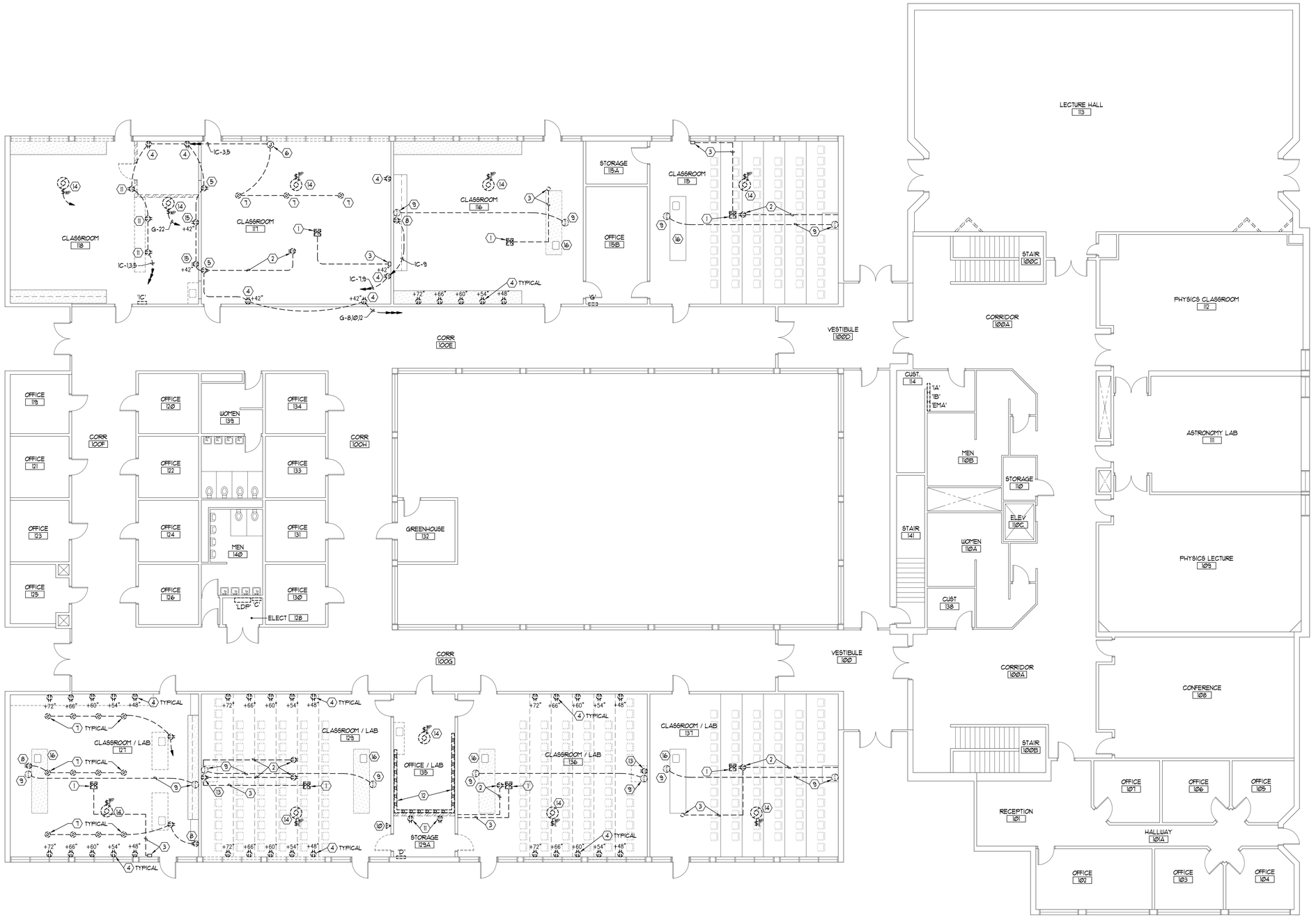
9. REMOVE ABANDONED SLIDE PROJECTOR CONTROL RECEPTACLE AND CABLE. REMOVE ALL ACCESSIBLE CONDUIT, BOXES, ETC. UNDERFLOOR CONDUIT MAY BE ABANDONED IN PLACE.
10. REMOVE EXISTING SURFACE MOUNTED DATA OUTLET INCLUDING SURFACE RACEWAY SYSTEM AND DATA CABLES COMPLETE TO POINT OF ORIGINATION.
11. REMOVE EXISTING RECEPTACLE FROM EXISTING WALL TO BE REMOVED INCLUDING ABANDONED WIRING, CONDUIT, BOXES, ETC.
12. REMOVE EXISTING SURFACE MULTI-OUTLET ASSEMBLIES, SURFACE RECEPTACLES, AND SURFACE TELE/DATA OUTLETS FROM EXISTING WALL TO REMAIN. REPAIR EXISTING WALL AS REQUIRED FOR NEW FINISHES.
13. REMOVE EXISTING SURFACE RECEPTACLE FROM INTERIOR OF EXISTING AUDIO-VISUAL CABINET TO BE REMOVED. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.
14. REMOVE ELECTRICAL CIRCUIT TO EXISTING ROOF MOUNTED EXHAUST FAN TO BE REMOVED. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.
15. REMOVE EXISTING RECEPTACLE AND WIRING. ABANDON EXISTING OUTLET BOX IN EXISTING MASONRY WALL TO REMAIN TO BE COVERED BY NEW WALL FURRING WITH ALL WIRING REMOVED.
16. DISCONNECT AND RECONNECT EXISTING ELECTRICAL AND COMMUNICATION CONNECTIONS TO EXISTING TEACHING STATION CABINETS AS REQUIRED TO ALLOW REMOVAL AND REINSTALLATION OF THE CABINETS.

GENERAL NOTES:

1. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, LIGHTING, SWITCHES, OUTLETS, BRANCH CIRCUIT WIRING, ETC., ARE BASED ON EXISTING BUILDING ELECTRICAL DRAWINGS AND FIELD OBSERVATION OF EXISTING SURFACE CONDITIONS. FIELD VERIFY EXISTING LOCATIONS AND CIRCUITING AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH MAY ADVERSELY AFFECT COMPLETION OF THE WORK.
2. DEMOLITION PLAN IS SHOWN FOR CONTRACTORS REFERENCE ONLY. FIELD VERIFY QUANTITIES AND LOCATIONS OF ALL EXISTING MATERIAL AND EQUIPMENT TO BE REMOVED. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, OUTLETS, FIXTURES, EQUIPMENT, ETC., WHETHER SPECIFICALLY SHOWN OR NOT.
3. REMOVE ALL EXISTING FIXTURES, OUTLETS, SWITCHES, ETC., SHOWN ON THE DEMOLITON PLAN, EXCEPT WHERE SPECIFICALLY NOTED TO REMAIN OR BE RELOCATED.
4. CONTRACTOR MAY USE EXISTING BRANCH CIRCUIT WIRING AND RACEWAYS WHERE CONVENIENT TO CONNECT TO NEW ELECTRICAL DEVICES ONLY IF THE EXISTING WIRING AND RACEWAYS ARE IN GOOD CONDITION AND MEET DIVISION 16 SPECIFICATION REQUIREMENTS FOR NEW WIRING AND RACEWAYS.
5. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT INTERRUPTS EXISTING BRANCH CIRCUITS OR FEEDERS TO EXISTING EQUIPMENT TO REMAIN, PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO RECONNECT THE EXISTING EQUIPMENT.

GENERAL NOTES:

6. ALL MATERIALS AND EQUIPMENT REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER FOR STORAGE OR BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED BY THE OWNER.
7. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A3 1ST FLOOR POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

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CAD DWG FILE NO:	0730 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR POWER DEMOLITION PLAN

ED102

SHEET 2 OF 9 (ELECT.)

KEYED NOTES:

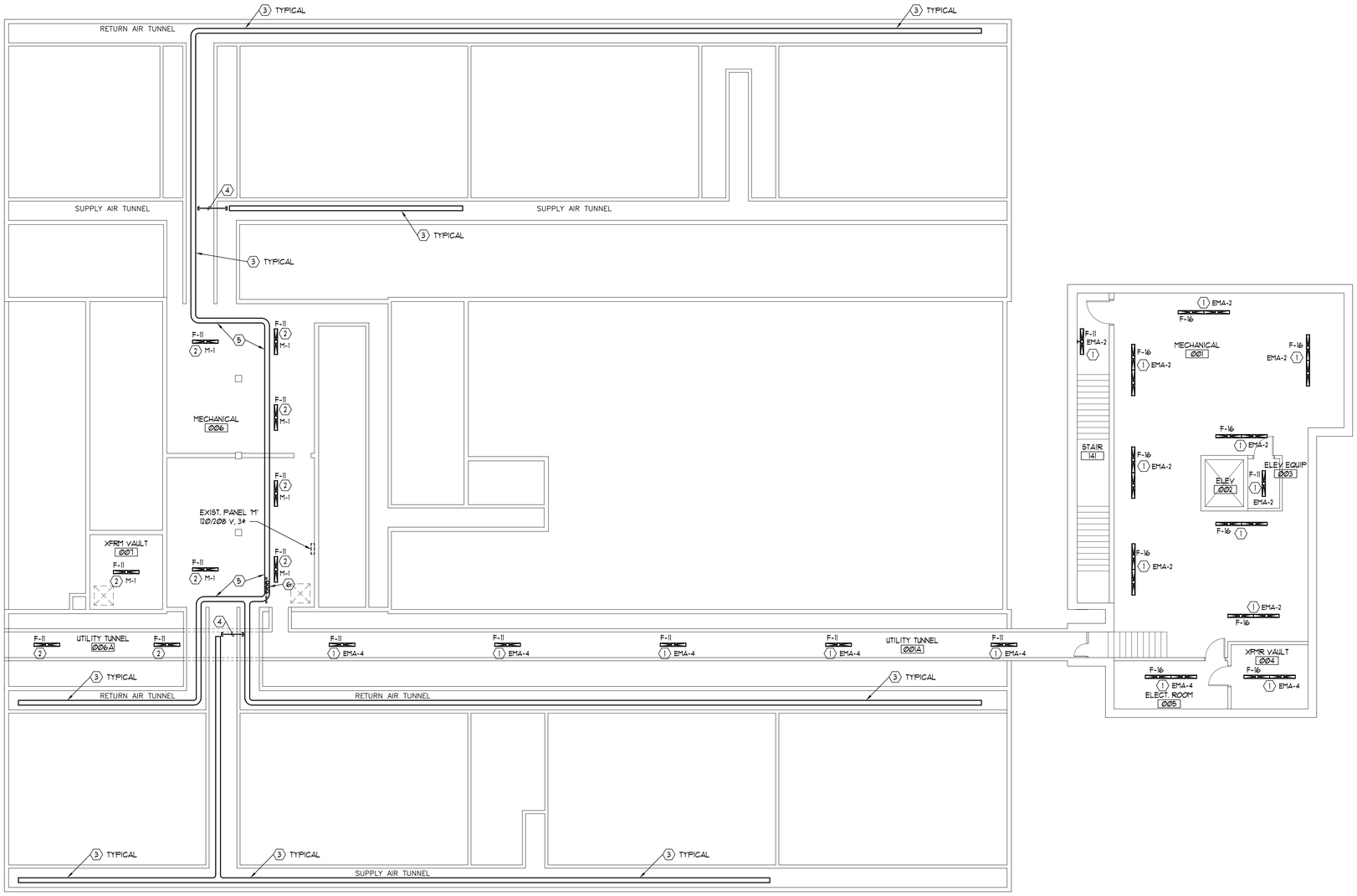
1. REPLACE EXISTING FIXTURES WITH NEW FIXTURES INDICATED AND CONNECT TO EXISTING CIRCUIT AND SWITCHES UNLESS NOTED OTHERWISE. EXISTING CIRCUIT IS SHOWN FOR REFERENCE.
2. PROVIDE NEW FLUORESCENT FIXTURE TO REPLACE EXISTING INCANDESCENT FIXTURE. CHAIN MOUNT NEW FIXTURE AS REQUIRED TO CLEAR EXISTING PIPING, DUCTWORK, ETC., AND CONNECT TO EXISTING FIXTURE OUTLET BOX WITH FLEXIBLE STEEL CONDUIT. FIELD VERIFY EXISTING CIRCUITING.
3. NEW 6" WIDE x 2" DEEP WIRE TYPE CABLE TRAY IN EXISTING TUNNEL. COORDINATE EXACT LOCATION WITH EXISTING PIPING TO PROVIDE MINIMUM 12" CLEARANCE FROM EXISTING HOT WATER PIPING.
4. PROVIDE 2" CONDUIT THROUGH TUNNEL WALL FOR DATA CABLES AND SEAL CONDUIT PENETRATION AIRTIGHT.
5. NEW 6" WIDE x 2" DEEP WIRE TYPE CABLE TRAY THROUGH MECHANICAL ROOM. COORDINATE EXACT LOCATION WITH EXISTING EQUIPMENT AND PIPING.
6. PROVIDE (2) 4" CONDUIT SLEEVES THROUGH EXISTING CEILING TO EXISTING TELE/DATA TERMINAL BOARD ON MAIN FLOOR ABOVE. CORE-DRILL AND FIRE SEAL EXISTING CONCRETE FLOOR TO INSTALL NEW CONDUITS.

GENERAL NOTES:

1. COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
2. WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.
3. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.

ADDITIVE ALTERNATE NO. 1 - DATA CABLES:

1. PROVIDE NEW PLENUM RATED CATEGORY 5E DATA CABLES FROM EACH NEW DATA OUTLET TO EXISTING TELEPHONE/DATA TERMINALS UNDER ADDITIVE ALTERNATE NO. 1.
2. LEAVE MINIMUM 12" SLACK CABLE AT DATA OUTLETS FOR CABLE TERMINATIONS BY OWNER.
3. LEAVE MINIMUM 3 FT SLACK CABLE AT TELEPHONE DATA TERMINALS FOR CABLE TERMINATIONS BY OWNER.
4. INSTALL CABLES IN CONDUIT AND/OR CABLE TRAY UNLESS NOTED OTHERWISE. CABLES INSTALLED ABOVE NEW ACCESSIBLE CEILINGS WILL NOT REQUIRE RACEWAY BUT SHALL BE SUPPORTED FROM STRUCTURE WITH TIE-WRAPS OR OTHER MEANS ACCEPTABLE TO THE ARCHITECT AND ENGINEER.



A3 BASEMENT ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

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DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

BASEMENT ELECTRICAL PLAN

E-101

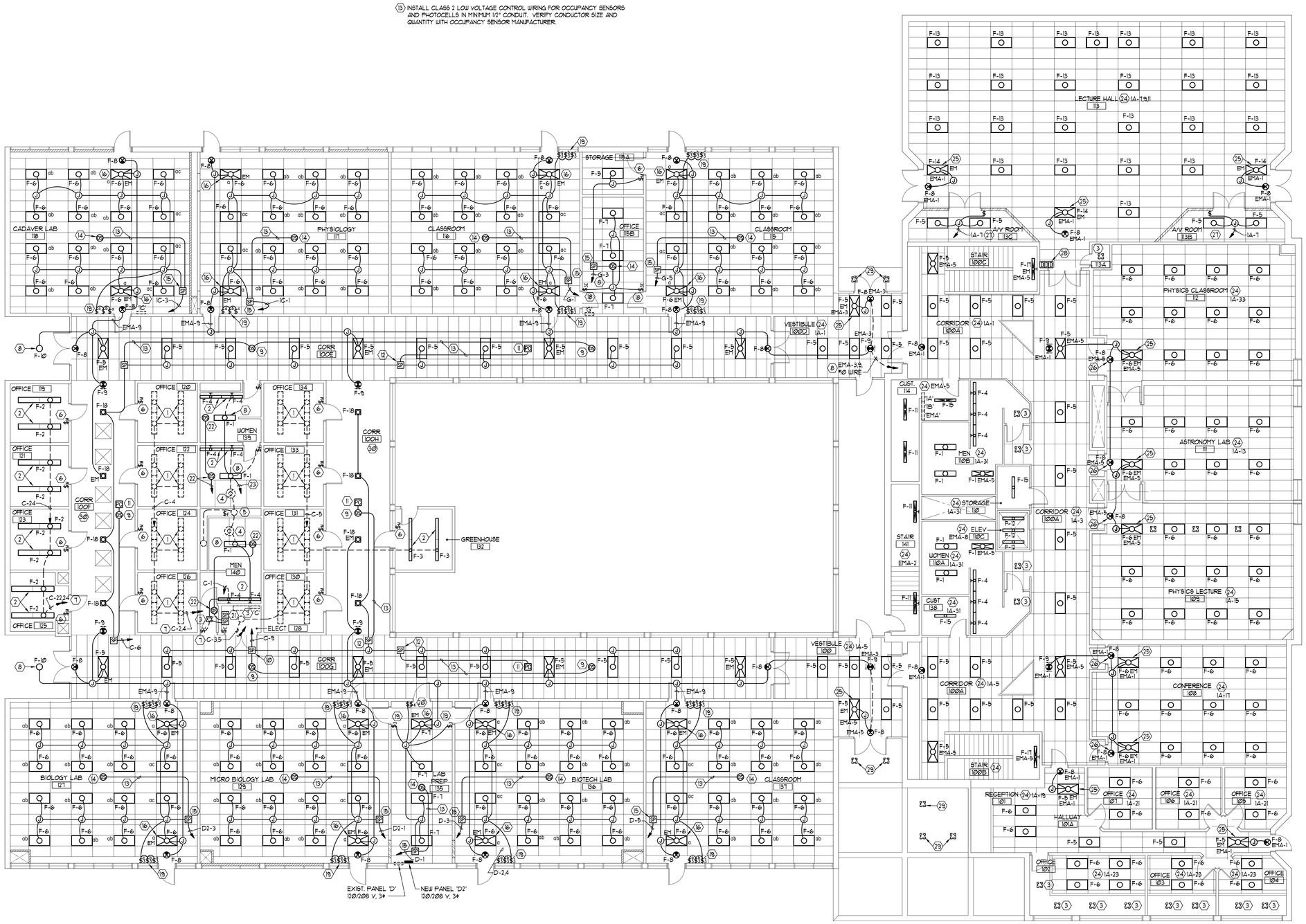
SHEET 3 OF 9 (ELECT.)

KEYED NOTES:

1. EXISTING 4 FT, 2 LAMP SURFACE MOUNTED FLUORESCENT FIXTURE. REPLACE EXISTING BALLAST, LAMPS, AND LAMP SOCKETS WITH NEW ELECTRONIC BALLAST, NEW T8 LAMPS, AND NEW LAMP SOCKETS. USE EXTREME CAUTION TO NOT DISTURB EXISTING ASBESTOS CEILING TILE.
2. PROVIDE NEW FIXTURE INDICATED TO REPLACE REMOVED FIXTURE(S) AND CONNECT TO EXISTING BRANCH CIRCUIT.
3. EXISTING FIXTURE WITH COMPACT FLUORESCENT LAMP TO REMAIN.
4. EXISTING CEILING EXHAUST FAN TO REMAIN.
5. EXISTING INCANDESCENT FIXTURES IN PIPE CHASE TO REMAIN.
6. REPLACE EXISTING SINGLE POLE SWITCH WITH NEW OCCUPANCY SENSOR WALL SWITCH.
7. EXISTING BRANCH CIRCUIT HOMERUN TO REMAIN.
8. NEW FIXTURE AT NEW OUTLET BOX. INSTALLED TO REPLACE EXISTING RECESSED INCANDESCENT FIXTURE, SEE LIGHTING DEMOLITION PLAN, SHEET ED1Ø.
9. NEW CEILING MOUNTED CORRIDOR OCCUPANCY SENSOR.
10. NEW OCCUPANCY SENSOR SWITCHPACK TO BE CONTROLLED BY NEW CORRIDOR OCCUPANCY SENSORS.
11. NEW CEILING MOUNTED INDOOR PHOTOCELL SENSOR.
12. NEW OCCUPANCY SENSOR SWITCHPACK TO BE CONTROLLED BY PHOTOCELL SENSOR. CONNECT LINE CONDUCTORS TO LOAD SIDE OF CORRIDOR SWITCHPACK (KEYED NOTE 1Ø).
13. INSTALL CLASS 2 LOW VOLTAGE CONTROL WIRING FOR OCCUPANCY SENSORS AND PHOTOCELLS IN MINIMUM 1/2" CONDUIT. VERIFY CONDUCTOR SIZE AND QUANTITY WITH OCCUPANCY SENSOR MANUFACTURER.
14. NEW CEILING MOUNTED 360° OCCUPANCY SENSOR.
15. NEW SWITCHPACK TO BE CONTROLLED BY ROOM OCCUPANCY SENSOR. CONNECT ROOM SWITCHES TO LOAD SIDE OF SWITCHPACK TO ALLOW LOCAL ON-OFF CONTROL OF LIGHTING.
16. CONNECT INBOARD LAMP OF EMERGENCY LIGHT FIXTURES IN CLASSROOMS TO EMERGENCY CIRCUIT. CIRCUIT AND SWITCH OUTBOARD LAMPS WITH GENERAL ROOM LIGHTING.
17. NEW OCCUPANCY SENSOR SWITCHPACK TO BE CONTROLLED BY NEW CORRIDOR OCCUPANCY SENSORS AND PHOTOCELL.
18. EXISTING SWITCH TO REMAIN. RECONNECT TO CONTROL NEW LIGHTING AS INDICATED.
19. REPLACE EXISTING SWITCHES WITH NEW SWITCHES TO MATCH STYLE AND COLOR OF OTHER NEW WIRING DEVICES. CONNECT TO CONTROL NEW FIXTURES AS INDICATED.
20. PROVIDE NEW SWITCHES SURFACE MOUNTED ON EXISTING MASONRY WALL USING WIREMOLD V7ØØ, OR EQUAL, SURFACE METAL RACEWAY SYSTEM.
21. PROVIDE NEW OCCUPANCY SENSOR SWITCHPACKS IN ELECTRICAL ROOM TO CONTROL EXISTING RESTROOMS LIGHTING. CONNECT EXISTING SWITCHES TO LOAD SIDE OF SWITCHPACK TO ALLOW LOCAL ON-OFF CONTROL OF LIGHTING.
22. PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR IN EXISTING CEILING. REPAIR CEILING AS REQUIRED TO MATCH SURROUNDING SURFACES. INSTALL CLASS 2 CONTROL WIRING TO SWITCHPACK IN ELECTRICAL ROOM IN MINIMUM 1/2" CONDUIT. FLEXIBLE STEEL CONDUIT MAY BE USED TO FISH ABOVE EXISTING CEILING.
23. INTERCEPT AND EXTEND EXISTING RESTROOMS SWITCHLEGS THROUGH NEW SWITCHPACK IN ELECTRICAL ROOM AS REQUIRED TO PROVIDE INTENDED FUNCTION OF THE OCCUPANCY SENSORS. FLEXIBLE STEEL CONDUIT MAY BE USED TO FISH ABOVE EXISTING CEILINGS.
24. REPLACE ALL EXISTING FIXTURES IN ROOM WITH NEW FIXTURES INDICATED AND CONNECT TO EXISTING CIRCUIT AND SWITCHES UNLESS NOTED OTHERWISE. EXISTING CIRCUIT IS SHOWN FOR REFERENCE.
25. EXISTING FIXTURE CONNECTED TO NORMAL POWER BRANCH CIRCUIT. PROVIDE NEW CONNECTION TO EMERGENCY BRANCH CIRCUIT AS SHOWN. CONNECT EMERGENCY CIRCUIT TO ONE INBOARD LAMP FOR 3 LAMP FIXTURES.
26. PROVIDE NEW EXIT LIGHT IN EXISTING CEILING AND CONNECT TO EXISTING EMERGENCY BRANCH CIRCUIT AS SHOWN.
27. PROVIDE NEW FIXTURES, SWITCHES, AND BRANCH CIRCUIT WIRING IN NEW STORAGE ROOMS AS INDICATED.
28. REPLACE EXISTING FLUORESCENT DIMMERS WITH NEW FLUORESCENT DIMMERS COMPATIBLE WITH ELECTRONIC FLUORESCENT DIMMING BALLASTS FURNISHED WITH F-13 AND F-14 FIXTURES.
29. EXISTING RECESSED INCANDESCENT FIXTURE TO REMAIN. REPLACE INCANDESCENT LAMP WITH NEW 2Ø WATT PAR 38 SELF-BALLASTED COMPACT FLUORESCENT LAMP EQUAL TO PHILIPS EL/A PAR38 2Ø ALTO.
30. EXISTING CEILING IN CORRIDORS 1ØØF AND 1ØØH IS TO REMAIN WITH REPLACEMENT OF EXISTING CEILING TILE, SEE ARCHITECT'S PLANS. REPAIR EXISTING CEILING AS REQUIRED TO INSTALL NEW FIXTURES AND DEVICES. USE EXISTING CONDUIT WITH NEW WIRING WHERE POSSIBLE. FLEXIBLE STEEL CONDUIT MAY BE USED TO FISH THROUGH EXISTING CEILING SPACE WHERE REQUIRED.

GENERAL NOTES:

1. COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
2. WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.
3. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A3 1ST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-Ø" 0 4' 8' 16'

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

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CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR LIGHTING PLAN

EL101

SHEET 4 OF 9 (ELECT.)

FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NO.	DESCRIPTION	LAMP
F-1	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	WC4-232-EU CAN-232-UNV-1/2-EB10I WA4A-232-UNV-HI LB232-MVOLT-GEB10IS F9-232-A-SSD10-UE WS232A-UNV-EB81	4 FT, 2 LAMP SURFACE MOUNTED 'WRAPAROUND' FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS AND ONE 2 LAMP <10% THD ELECTRONIC BALLAST.	2F32T8/ADV835/EW 30 WATT
F-2	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	WC8-232-EU TCAN-232-UNV-1/4-EB10I WABA-232-UNV-HI TLB232-MVOLT-1/4-GEB10IS F9-232-2-A-SSD10-UE 8TWS232A-UNV-EB81	8 FT TANDEM, 2 LAMP ROW SURFACE MOUNTED 'WRAPAROUND' FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS AND ONE 4 LAMP <10% THD ELECTRONIC BALLAST.	4F32T8/ADV835/EW 30 WATT
F-3	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	RDB-132-EU TSJ-132-UNV-1/2-EB10I JS8C132-UNV-HI TCB-132-MVOLT-1/2-GEB10IS F12-132-2-A-SSD10-UE 8TCR-132A-UNV-EB81	8 FT TANDEM, 1 LAMP ROW SURFACE MOUNTED 'CORRIDOR' FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS AND ONE 2 LAMP <10% THD ELECTRONIC BALLAST.	2F32T8/ADV835/EW 30 WATT
F-4	COLUMBIA DAY-BRITE LIGHTOLIER LSI METALUX PRUDENTIAL	WAL4-232-EU CD232-W-UNV-1/2-EB10I CWBU232-UNV-HI WB-232-SSD10-UE BI-232-UNV-EB81 P1850-2T8D4PRA-YGW-SC-UNV-10THD	4 FT, 2 LAMP WALL MOUNTED FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS AND ONE 2 LAMP <10% THD ELECTRONIC BALLAST.	2F32T8/ADV835/EW 30 WATT
F-5	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	5PA24-232G-RAA12. 125-S-EU 2DPGS232-RA21-UNV-1/2-EB10I PRS2GRFV1232-UNV-HI 2SPGB-232RV-A12125-MVOLT-GEB10IS GN-A125-232-FD-SSD10-UE 2GCB-RA-232-A125-UNV-EB81	2' x 4', 2 LAMP, LAY-IN FLUORESCENT FIXTURE WITH REGRESSED FLOATING DOOR, BLACK REVEAL, 0.125" THICK ACRYLIC PRISMATIC LENS, AND ONE 2 LAMP <10% THD ELECTRONIC BALLAST.	2F32T8/ADV835/EW 30 WATT
F-6	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	5PA24-332G-RAA12. 125-S-EU 2DPGS332-RA21-UNV-2/12-EB10I PRS2GRFV1332-UNV-HI 2SPGB-332RV-A12125-MVOLT-GEB10IS GN-A125-332-FD-SSD10-UE 2GCB-RA-332-A125-UNV-EB82	2' x 4', 3 LAMP, LAY-IN FLUORESCENT FIXTURE WITH REGRESSED FLOATING DOOR, BLACK REVEAL, 0.125" THICK ACRYLIC PRISMATIC LENS, AND ONE 1 LAMP AND ONE 2 LAMP <10% THD ELECTRONIC BALLASTS WIRED FOR INBOARD/OUTBOARD LAMP SWITCHING.	3F32T8/ADV835/EW 30 WATT
F-7	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	5PA24-432G-RAA12. 125-S-EU 2DPGS432-RA21-UNV-2/2-EB10I PRS2GRFV1432-UNV-HI 2SPGB-432RV-A12125-MVOLT-GEB10IS GN-A125-432-FD-SSD10-UE 2GCB-RA-432-A125-UNV-EB82	2' x 4', 4 LAMP, LAY-IN FLUORESCENT FIXTURE WITH REGRESSED FLOATING DOOR, BLACK REVEAL, 0.125" THICK ACRYLIC PRISMATIC LENS, AND TWO 2 LAMP <10% THD ELECTRONIC BALLASTS WIRED FOR INBOARD/OUTBOARD LAMP SWITCHING.	4F32T8/ADV835/EW 30 WATT
F-8	DUAL-LITE EXITRONIX LIGHTOLIER LITHONIA MCPHILBEN SURE-LITES	SE-S-G-W G4OOU-LB-WW LD-A-1-G-W LE-S-W-1-G-120/277 3OVL-1-W-G CX-6-1-G-W	UNIVERSAL MOUNTED, SINGLE FACE, LIGHT EMITTING DIODE (LED) EXIT LIGHT WITH DIE CAST ALUMINUM HOUSING, WHITE FINISH, GREEN LETTERS ON STENCIL FACE, UNIVERSAL KNOCKOUT CHEVRON ARROWS AND 120/277 DUAL VOLTAGE INPUT.	FURNISHED W/FIXTURE
F-9	DUAL-LITE EXITRONIX LIGHTOLIER LITHONIA MCPHILBEN SURE-LITES	SE-D-G-W G4OOU-LB-WW LD-A-2-G-W LE-S-W-2-G-120/277 3OVL-2-W-G CX-6-2-G-W	UNIVERSAL MOUNTED, DOUBLE FACE, LIGHT EMITTING DIODE (LED) EXIT LIGHT WITH DIE CAST ALUMINUM HOUSING, WHITE FINISH, GREEN LETTERS ON STENCIL FACE, UNIVERSAL KNOCKOUT CHEVRON ARROWS AND 120/277 DUAL VOLTAGE INPUT.	FURNISHED W/FIXTURE
F-10	FAIL-SAFE NITE-BRITES	HCS-70S-MT-QRS-PB-120 CLI-070S-MT-PE-PX-Q	SURFACE MOUNTED HIGH PRESSURE SODIUM FIXTURE WITH CAST ALUMINUM HOUSING , POLYCARBONATE PRISMATIC LENS, DARK BRONZE FINISH, HIGH POWER FACTOR MULTI-TAP BALLAST, 120 VOLT PHOTOCELL, AND QUARTZ RESTRIKE SYSTEM.	70 W HPS ED-17 70O-DC
F-11	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	CS4-232-EU-CSWG4 T232-UNV-1/2-EB10I-CG-4 SW4S232-UNV-HI/AWG3W-CSP C132-MVOLT-GE10IS-WG4 S232-SSD10-UE/WG240 SS232-UNV-EB81-WG/SS-4FT-U	4 FT, 2 LAMP SURFACE MOUNTED FLUORESCENT STRIPLIGHT WITH WIRE GUARD AND ONE 2 LAMP, <10% THD ELECTRONIC BALLAST	2F32T8/ADV835/EW 30 WATT
F-12	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	CH4-132-EU N132-UNV-1/1-EB10I SN4S132-UNV-HI C132-MVOLT-GE10IS S132-SSD10-UE SN132-UNV-EB81	4 FT, 1 LAMP SURFACE MOUNTED FLUORESCENT STRIPLIGHT WITH ONE 1 LAMP <10% THD ELECTRONIC BALLAST	1F32T8/ADV835/EW 30 WATT
F-13	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	5PA24-332G-RAA12. 125-S-3ED-120 2DPGS332-RA21-120-1/3-EDB PRS2GRFV1332-120-H3DIM 2SPGB-332RV-A12125-120-GEBDIM GN-A125-332-FD-SSD-120 2GCB-RA-332-A125-120-DEB81	2' x 4', 3 LAMP, LAY-IN FLUORESCENT FIXTURE WITH REGRESSED FLOATING DOOR, BLACK REVEAL, 0.125" THICK ACRYLIC PRISMATIC LENS, AND ONE 3 LAMP 120 VOLT ELECTRONIC DIMMING BALLAST EQUAL TO ADVANCE MARK 10.	3F32T8/ADV835/EW 30 WATT
F-14	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	5PA24-332G-RAA12. 125-S-ED/E-120 2DPGS332-RA21-120-1/21-EDB/EB10I PRS2GRFV1332-120-H2DIM/HI 2SPGB-332RV-A12125-120-GEBDIM GN-A125-332-FD-SSOD/SSD10-120 2GCB-RA-332-A125-120-DEB81/EB81	SAME AS F-13 EXCEPT WITH ONE 2 LAMP ELECTRONIC DIMMING BALLAST EQUAL TO ADVANCE MARK 10 WIRED TO OUTBOARD LAMPS, AND ONE 1 LAMP <10% THD ELECTRONIC BALLAST WIRED TO INBOARD LAMP FOR CONNECTION TO UNSWITCHED EMERGENCY LIGHTING BRANCH CIRCUIT.	3F32T8/ADV835/EW 30 WATT
F-15	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	RD4-232-EU SJ-232-UNV-1/2-EB10I JS4C232-UNV-HI CB-232-MVOLT-1/2-GEB10IS F12-232-A-SSD10-UE CR-2324-UNV-EB81	4 FT, 2 LAMP SURFACE MOUNTED 'CORRIDOR' FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS AND ONE 2 LAMP <10% THD ELECTRONIC BALLAST.	2F32T8/ADV835/EW 30 WATT
F-16	COLUMBIA DAY-BRITE LIGHTOLIER LITHONIA LSI METALUX	CSR8-232-4EU T1A232-UNV-1/4-EB10I KW8A232-UNV-H4 TLA232-MVOLT-1/4-GEB10IS F20-232-2-SSD10-U-UE 8T1A-232-UNV-EB81	8 FT, 2 LAMP ROW, TANDEM, SURFACE MOUNTED INDUSTRIAL FLUORESCENT STRIPLIGHT WITH OPEN REFLECTOR AND ONE 4 LAMP, <10% THD ELECTRONIC BALLAST	4F32T8/ADV835/EW 30 WATT
F-17	DAY-BRITE LIGHTOLIER LITHONIA WILLIAMS	WB232-VCP-UNV-1/2-EB10I GSW4232-UNV-HI VW-232-ACR-MVOLT-GEB10IS V5-20-232-DR-EBLHI-UNV	4 FT, 2 LAMP, FLUORESCENT WALL BRACKET WITH CLEAR PRISMATIC HIGH IMPACT ACRYLIC LENS AND ONE 2 LAMP <10% THD ELECTRONIC BALLAST	2F32T8/ADV835/EW 30 WATT
F-18	ECLIPSE WILLIAMS	85-S-TTT32-EBU-93 PHSQ12-232-EB-UNV	RECESSED COMPACT FLUORESCENT FIXTURE WITH NOMINAL 12" SQUARE HOUSING, TEMPERED GLASS LENS, WHITE TRIM, AND <10% THD ELECTRONIC BALLAST	2CFM32W/35K

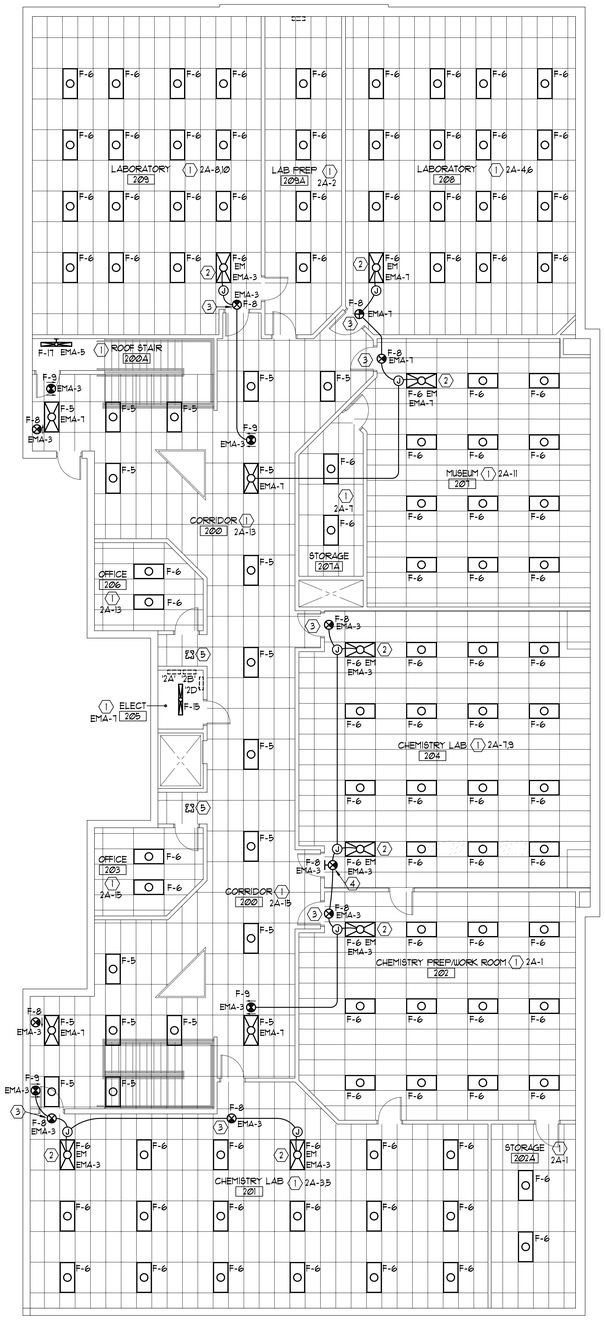
NOTES:
1. PROVIDE EXTRA MATERIAL STOCK OF LAMPS AND BALLASTS, SEE SPECIFICATION SECTION 16500.
2. BURN IN ALL FLUORESCENT AND HID LAMP FOR 100 CONTINUOUS HOURS PRIOR TO SUBSTANTIAL COMPLETION. LAMP BURN IN IS CRITICAL FOR DIMMER CONTROLLED LAMPS TO OBTAIN FULL DIMMING RANGE AND FOR OCCUPANCY SENSOR CONTROLLED LAMPS TO OBTAIN FULL LAMP LIFE.

KEYED NOTES:

1. REPLACE ALL EXISTING FIXTURES IN ROOM WITH NEW FIXTURES INDICATED AND CONNECT TO EXISTING CIRCUIT AND SWITCHES UNLESS NOTED OTHERWISE. EXISTING CIRCUIT IS SHOWN FOR REFERENCE.
2. EXISTING FIXTURE CONNECTED TO NORMAL POWER BRANCH CIRCUIT. PROVIDE NEW CONNECTION TO EMERGENCY BRANCH CIRCUIT AS SHOWN. CONNECT EMERGENCY CIRCUIT TO ONE INBOARD LAMP FOR 3 LAMP FIXTURES.
3. PROVIDE NEW EXIT LIGHT IN EXISTING CEILING AND CONNECT TO EXISTING EMERGENCY BRANCH CIRCUIT AS SHOWN.
4. REPLACE EXISTING BATTERY BACK-UP EXIT/EMERGENCY LIGHT WITH NEW EXIT LIGHT AND CONNECT TO EMERGENCY BRANCH CIRCUIT AS SHOWN.
5. EXISTING FIXTURE WITH COMPACT FLUORESCENT LAMP TO REMAIN.

GENERAL NOTES:

1. COORDINATE FIXTURE LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN, CEILING CONTRACTOR, BUILDING STRUCTURE, MECHANICAL EQUIPMENT & DUCTWORK LOCATIONS, ETC.
2. WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, USE THAT SIZE WIRE THROUGHOUT THE BRANCH CIRCUIT, INCLUDING SWITCH LEGS, ETC.
3. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A5 2ND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-Ø" 0 4' 8' 16'

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

DATE:	30 JANUARY 2008
AGENCY PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	0730 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

2ND FLOOR LIGHTING PLAN

EL102

SHEET 5 OF 9 (ELECT.)

EQUIPMENT SCHEDULE

EQUIP NO.	DESCRIPTION	CIRCUIT NUMBER	VOLTS	PHASE	WATTS H.P.	BREAKER	STARTERS FURNISH	STARTERS INSTALL	STARTERS SIZE	AUX. CONT.	LOCATION
EF 1	EXHAUST FAN, ROOF MOUNTED	IC-42	120	1	1/2 HP	1P-20A	E	E	STD	-	ON ROOF CADAVER LAB 118
MA 1	MAKE-UP AIR UNIT	G-38	208	3	72.4 AMPS	3P-100A	M	M	M	-	ON ROOF (CADAVER LAB 118)
FPB 1	FAN POWERED VAV BOX	D2-40	120	1	1/2 HP	1P-20A	E	E	STD	-	BIOLOGY LAB 127
FPB 2	FAN POWERED VAV BOX	D2-41	120	1	1/2 HP	1P-20A	E	E	STD	-	MICRO BIOLOGY LAB 129
FPB 3	FAN POWERED VAV BOX	D-32	120	1	1/2 HP	1P-20A	E	E	STD	-	BIOTECH LAB 136
FPB 4	FAN POWERED VAV BOX	IC-40	120	1	1/2 HP	1P-20A	E	E	STD	-	PHYSIOLOGY 111

E - ELECTRICAL CONTRACTOR
M - MECHANICAL CONTRACTOR

ADDITIVE ALTERNATE NO. 1 - DATA CABLES:

1. PROVIDE NEW PLENUM RATED CATEGORY 5E DATA CABLES FROM EACH NEW DATA OUTLET TO EXISTING TELEPHONE/DATA TERMINALS UNDER ADDITIVE ALTERNATE NO. 1.
2. LEAVE MINIMUM 12" SLACK CABLE AT DATA OUTLETS FOR CABLE TERMINATIONS BY OWNER.
3. LEAVE MINIMUM 3 FT SLACK CABLE AT TELEPHONE DATA TERMINALS FOR CABLE TERMINATIONS BY OWNER.
4. INSTALL CABLES IN CONDUIT AND/OR CABLE TRAY UNLESS NOTED OTHERWISE. CABLES INSTALLED ABOVE NEW ACCESSIBLE CEILINGS WILL NOT REQUIRE RACEWAY BUT SHALL BE SUPPORTED FROM STRUCTURE WITH TIE-WRAPS OR OTHER MEANS ACCEPTABLE TO THE ARCHITECT AND ENGINEER.

KEYED NOTES:

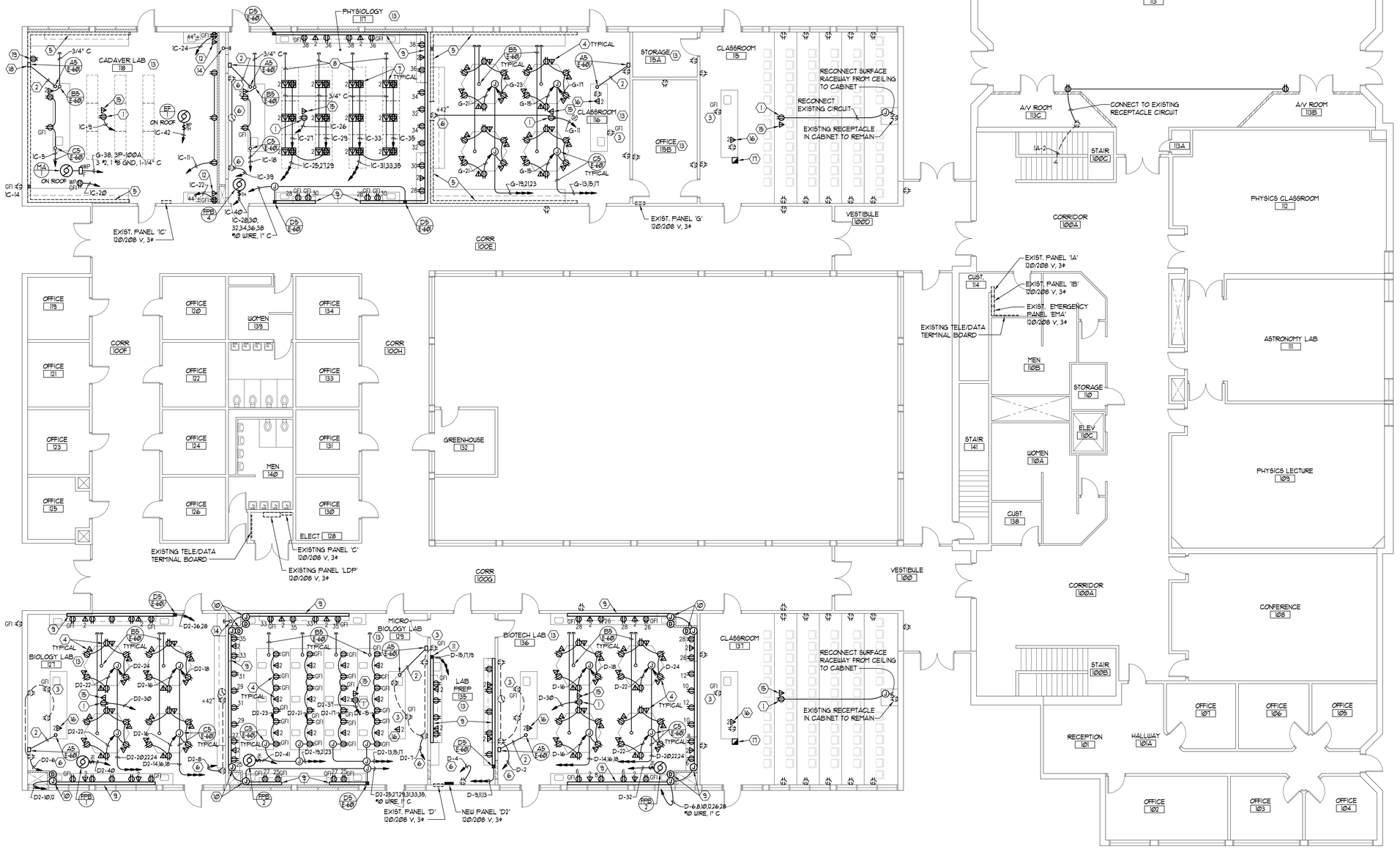
1. PROVIDE NEW DUPLEX RECEPTACLE ABOVE NEW CEILING FOR CEILING MOUNTED PROJECTOR TO BE FURNISHED AND INSTALLED BY OWNER.
2. PROVIDE 2" CONDUIT UNDER FLOOR AND SURFACE RACEWAY TO CEILING FOR OWNER FURNISHED PROJECTOR CABLES. SAWCUT, REMOVE, AND REPAIR EXISTING CONCRETE FLOOR TO INSTALL NEW CONDUIT. SEE DETAIL INDICATED.
3. REPLACE EXISTING RECEPTACLE IN FACE OF CABINET WITH NEW GFCI RECEPTACLE AND RECONNECT EXISTING BRANCH CIRCUIT.
4. PROVIDE RECEPTACLES AND DATA OUTLETS IN NEW CASEWORK. SEE ARCHITECT'S DETAILS. CONNECT RECEPTACLES WITHIN CASEWORK USING 1/2" LIQUID-TIGHT FLEXIBLE STEEL CONDUIT.
5. EXISTING DUAL CHANNEL, POWER AND DATA, SURFACE MULTI-OUTLET ASSEMBLY TO REMAIN. SHOWN FOR REFERENCE ONLY.
6. EXISTING RECEPTACLE BRANCH CIRCUIT INTERRUPTED BY DEMOLITION. CONNECT TO NEW BRANCH CIRCUIT AS SHOWN.
7. PROVIDE NEW COMBINATION POWER/DATA FLUSH FLOOR BOXES. FIELD COORDINATE EXACT LOCATION WITH NEW COMPUTER LAB TABLES.
8. PROVIDE NEW 1" DATA CONDUIT FROM NEW FLOOR BOXES TO NEW CABLE TRAY IN TUNNEL BELOW, SIMILAR TO DETAIL B5/E-601.
9. PROVIDE NEW DUAL CHANNEL, POWER AND DATA, SURFACE MULTI-OUTLET ASSEMBLY ABOVE NEW BASE CABINETS.
10. CONNECT TO NEW SURFACE MULTI-OUTLET ASSEMBLY FROM FLUSH MOUNTED OUTLET BOXES IN NEW WALL. INSTALL CONDUIT FROM OUTLET BOXES DOWN TO TUNNEL BELOW EXCEPT POWER CONDUITS MAY INSTALLED IN CEILING SPACE. COORDINATE INSTALLATION WITH NEW MECHANICAL DUCTWORK.
11. EXTEND DUAL CHANNEL SURFACE RACEWAY TO CEILING AND MAKE CEILING CONNECTION SIMILAR TO DETAIL A5/E-601.

KEYED NOTES:

12. FLUSH MOUNTED DATA OUTLET WITH 3/4" CONDUIT TO CABLE TRAY IN TUNNEL BELOW.
13. REPLACE ALL EXISTING RECEPTACLES IN ROOMS INDICATED WITH NEW RECEPTACLES AND COVERPLATES TO MATCH COLOR AND STYLE OF OTHER NEW WIRING DEVICES.
14. PROVIDE 2" CONDUIT CONCEALED IN NEW WALL SPACE FROM ACCESSIBLE CEILING SPACE TO CABLE TRAY IN TUNNEL BELOW FOR DATA CABLES FROM CEILING MOUNTED DATA OUTLETS, COMMUNICATION POLES, ETC.
15. PROVIDE NEW DATA OUTLET ABOVE NEW CEILING FOR CEILING MOUNTED PROJECTOR TO BE FURNISHED AND INSTALLED BY OWNER.
16. PROVIDE NEW DATA OUTLET IN EXISTING CABINET. FIELD COORDINATE LOCATION WITH EXISTING CONDITIONS. DATA CABLE WILL BE INSTALLED IN NEW RACEWAY SYSTEM PROVIDED FOR CEILING PROJECTOR CABLES TO CEILING SPACE.
17. PROVIDE NEW WIREMOLD 25DTC-V, OR EQUAL, COMMUNICATION VERTICAL DROP POLE WITH 2" GROMMETTED OPENING AT BOTTOM FOR DATA CABLES AND OWNER FURNISHED PROJECTOR CABLES.
18. TERMINATE NEW VERTICAL SURFACE RACEWAY BASE APPROXIMATELY 4" ABOVE AND BELOW EXISTING HORIZONTAL SURFACE RACEWAY. EXTEND COVER OVER EXISTING HORIZONTAL SURFACE RACEWAY. FIELD COORDINATE REQUIREMENTS WITH OWNER.
19. PROVIDE NEW RECEPTACLE IN EXISTING SURFACE RACEWAY FOR FREEZER TO BE RELOCATED FROM NORTH COUNTER AND CONNECT TO EXISTING CIRCUIT SERVING THE FREEZER AT THE EXISTING LOCATION.

GENERAL NOTES:

1. COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR.
2. FIELD COORDINATE LOCATION OF ALL NEW RECEPTACLES AND OUTLETS WITH MILLWORK AND FURNITURE LOCATIONS PRIOR TO ROUGHING IN.
3. WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, THE BRANCH CIRCUIT SHALL BE THAT SIZE WIRE THROUGHOUT, INCLUDING SWITCH LEGS, ETC.
4. ALL EXISTING RECEPTACLES, OUTLETS, ETC., SHOWN ON THIS SHEET ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
5. PROVIDE A SEPARATE NEUTRAL FOR EACH NEW RECEPTACLE BRANCH CIRCUIT.
6. PROVIDE AN INSULATED GREEN EQUIPMENT GROUND WIRE IN ALL NEW RACEWAYS WHETHER SPECIFICALLY NOTED OR NOT.
7. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A3 1ST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

DATE:	30 JANUARY 2008
AGENCY PROJECT NO:	07043640
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CAD DWG FILE NO:	0730 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR POWER PLAN

EP101

SHEET 6 OF 9 (ELECT.)

ADDITIVE ALTERNATE NO. 1 - DATA CABLES:

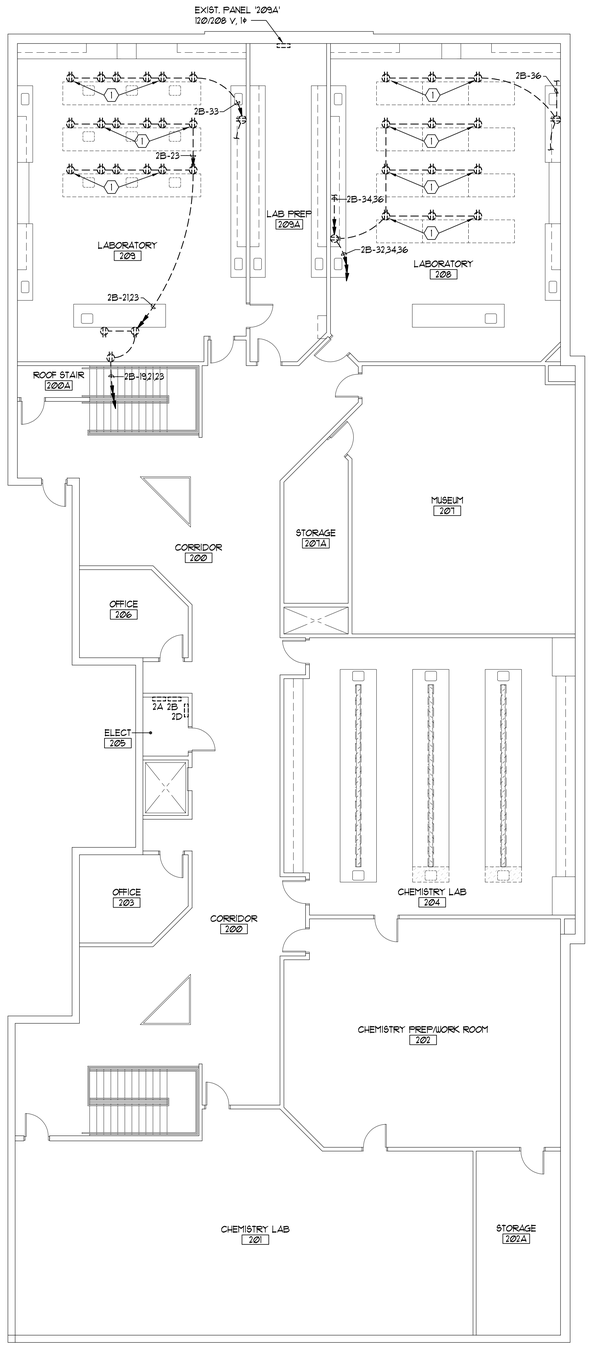
1. PROVIDE NEW PLENUM RATED CATEGORY 5E DATA CABLES FROM EACH NEW DATA OUTLET TO EXISTING TELEPHONE/DATA TERMINALS UNDER ADDITIVE ALTERNATE NO. 1.
2. LEAVE MINIMUM 12" SLACK CABLE AT DATA OUTLETS FOR CABLE TERMINATIONS BY OWNER.
3. LEAVE MINIMUM 3 FT SLACK CABLE AT TELEPHONE DATA TERMINALS FOR CABLE TERMINATIONS BY OWNER.
4. INSTALL CABLES IN CONDUIT AND/OR CABLE TRAY UNLESS NOTED OTHERWISE. CABLES INSTALLED ABOVE NEW ACCESSIBLE CEILINGS WILL NOT REQUIRE RACEWAY BUT SHALL BE SUPPORTED FROM STRUCTURE WITH TIE-WRAPS OR OTHER MEANS ACCEPTABLE TO THE ARCHITECT AND ENGINEER.

KEYED NOTES:

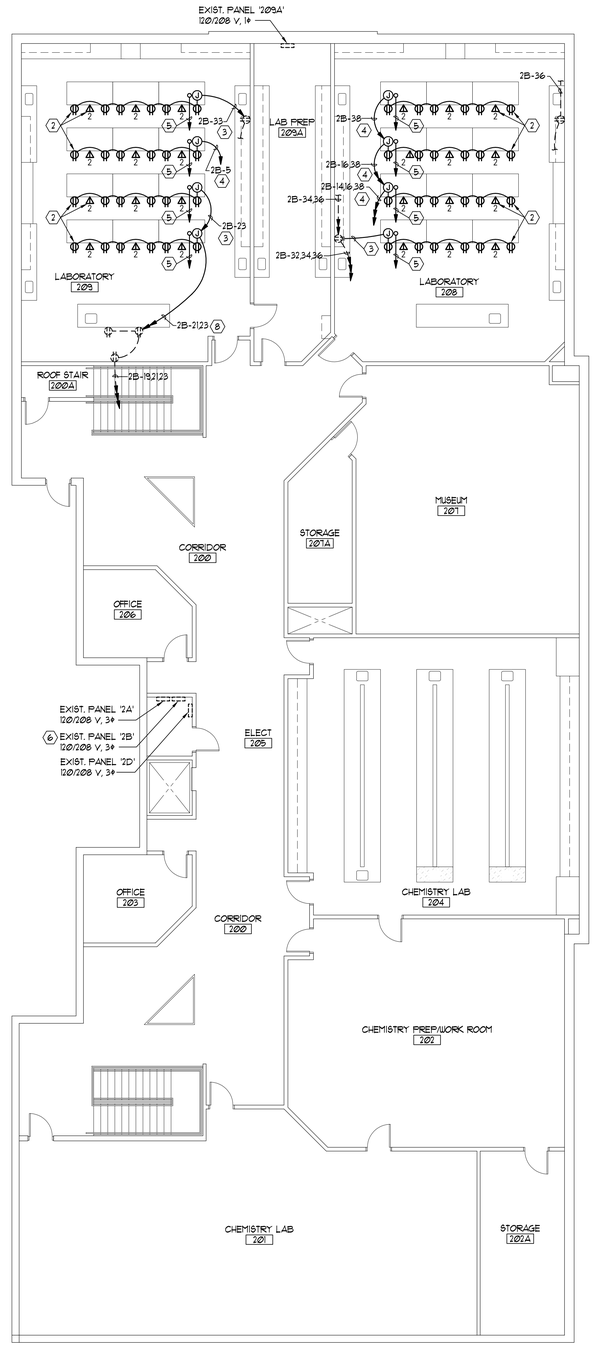
1. REMOVE EXISTING RECEPTACLES FROM EXISTING TABLES TO BE REMOVED. RETAIN EXISTING BRANCH CIRCUIT AS REQUIRED FOR CONNECTION TO NEW RECEPTACLES. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, ETC..
2. PROVIDE NEW RECEPTACLES AND DATA OUTLETS IN NEW TABLES, SEE ARCHITECT'S DETAILS. CONNECT RECEPTACLES UNDER TABLES USING 1/2" LIQUID-TIGHT FLEXIBLE STEEL CONDUIT ARRANGED TO MINIMIZE AMOUNT OF EXPOSED CONDUIT.
3. CONNECT NEW RECEPTACLES TO EXISTING BRANCH CIRCUIT ABANDONED BY DEMOLITION. PROVIDE CONDUIT STUB-UP SIMILAR TO DETAIL C5/E-601 EXCEPT INSTALL NEW CONDUIT IN 1ST FLOOR CEILING SPACE.
4. PROVIDE NEW BRANCH CIRCUIT COMPLETE TO EXISTING PANEL FOR NEW RECEPTACLES. PROVIDE CONDUIT STUB-UP SIMILAR TO DETAIL C5/E-601 EXCEPT INSTALL NEW CONDUIT IN 1ST FLOOR CEILING SPACE.
5. PROVIDE 1" CONDUIT FROM NEW TABLES TO EXISTING TELEPHONE/DATA TERMINAL BOARD IN ROOM 114 ON 1ST FLOOR. TERMINATE NEW CONDUIT AT TABLE SIMILAR TO DETAIL B5/E-601 EXCEPT INSTALL CONDUIT IN 1ST FLOOR CEILING SPACE.
6. PROVIDE TWO NEW SQUARE D TYPE 'QOB-VH' IP-20A CIRCUIT BREAKERS IN EXISTING PANEL '2B' TO SERVE NEW CIRCUITS *5 AND *8. CONNECT ADDITIONAL NEW CIRCUITS TO SPARE IP-20A BREAKERS.

GENERAL NOTES:

1. FIELD COORDINATE LOCATION OF ALL NEW RECEPTACLES AND OUTLETS WITH MILLWORK AND FURNITURE LOCATIONS PRIOR TO ROUGHING IN.
2. WHERE BRANCH CIRCUIT HOMERUNS INDICATE WIRE SIZES, THE BRANCH CIRCUIT SHALL BE THAT SIZE WIRE THROUGHOUT, INCLUDING SWITCH LEGS, ETC.
3. ALL EXISTING RECEPTACLES, OUTLETS, ETC., SHOWN ON THIS SHEET ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
4. PROVIDE A SEPARATE NEUTRAL FOR EACH NEW RECEPTACLE BRANCH CIRCUIT.
5. PROVIDE AN INSULATED GREEN EQUIPMENT GROUND WIRE IN ALL NEW RACEWAYS WHETHER SPECIFICALLY NOTED OR NOT.
6. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A2 2ND FLOOR POWER DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



A5 2ND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

DATE:	30 JANUARY 2008
AGENCY PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	0730 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

2ND FLOOR POWER PLANS

EP102

SHEET 7 OF 9 (ELECT.)

EXISTING PANEL '1C'
SQUARE D TYPE 'NQOD'
3 POLE 225 AMP MAIN LUGS

MAIN IN PANEL 'MDP'
EAST WING ELECTRICAL ROOM

10,000 A.I.C. FULLY RATED
120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED

CIR NO.	P	BRKR AMPS	DESCRIPTION	NO. LTS	NO. REC	CIRCUIT LOAD	PHASE LOAD - VA PHASE A	PHASE B	PHASE C	CIRCUIT LOAD	NO. REC	NO. LTS	DESCRIPTION	BRKR P	BRKR AMPS	CIR NO.
1	1	20	LTS, ROOM 117	16		1,380	2,380			1,000			COMPUTERS 118 (1,2,3,4)*	1	20	2
3			LTS, ROOM 118	16		1,380		2,380		1,000			COMPUTERS 118 (5,6,7,8)*			4
5			REC, RM 118 FRONT DESK		2	360			1,360	1,000			COMP. 118 (9,10,11,12)*			6
7			REC, PROJ & DESK 116 *			1,000	2,000			1,000			COMP. 118 (13,14,15,16)*			8
9			REC, PROJECTOR RM 118		1	180		1,180		1,000			COMP. 118 (17,18,19,20)*			10
11			REC, RM 118, EAST WALL		3	540			1,540	1,000			COMP. 118 (21,22,23,24)*			12
13			FLOOR OUTLET - WEST *			1,000	2,000			1,000			OUTSIDE OUTLET*			14
15			FLOOR OUTLET - CENTER *			1,000		1,000					SPARE			16
17			FLOOR OUTLET - EAST *			1,000			1,360	360	2		REC, RM 117, DESK & CNTR			18
19			S.E. OUTLETS *			1,000	1,180			180	1		REC ON ROOF			20
21			N. OUTLETS *			1,000		1,360		360	2		REC, RM 118, SE COUNTER			22
23			MIDDLE *			1,000			1,360	360	2		REC, RM 118, NE COUNTER			24
25			FLOOR REC, ROOM 117		4	720	900			180	1		REC, PROJECTOR RM 117			26
27			FLOOR REC, ROOM 117		4	720		1,260		540	3		REC, RM 117, SD. COUNTER			28
29			FLOOR REC, ROOM 117		4	720			1,260	540	3		REC, RM 117, SD. COUNTER			30
31			FLOOR REC, ROOM 117		4	720	1,080			360	2		REC, RM 117 EAST WALL			32
33			FLOOR REC, ROOM 117		4	720		1,080		360	2		REC, RM 117 EAST WALL			34
35			FLOOR REC, ROOM 117		4	720			1,260	540	3		REC, RM 117, NO. COUNTER			36
37			SPARE				540			540	3		REC, RM 117, NO. COUNTER			38
39			REC, RM 117, WEST WALL		2	360		1,535		1,175			FAN PWRD VAV BOX RM 117			40
41	1	20	SPARE						1,175	1,175			RM 118 EXHAUST FAN	1	20	42
							10,080	9,795	9,315							

TOTAL CONNECTED LOAD: 29,190 VA — 81 AMPS — FEEDER: EXISTING 4 #2/0, 2" C
CALCULATED FEEDER DEMAND, NEC 220: 22,840 VA — 63 AMPS

NOTES:
* EXISTING CIRCUIT TO REMAIN - FIELD VERIFY AND INCLUDE ON NEW TYPEWRITTEN CIRCUIT INDEX. LOAD IS ESTIMATED.

EXISTING PANEL 'G'
CUTLER HAMMER TYPE 'PB'
3 POLE 300 AMP MAIN BREAKER

10,000 A.I.C. FULLY RATED
120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED

CIR NO.	P	BRKR AMPS	DESCRIPTION	NO. LTS	NO. REC	CIRCUIT LOAD	PHASE LOAD - VA PHASE A	PHASE B	PHASE C	CIRCUIT LOAD	NO. REC	NO. LTS	DESCRIPTION	BRKR P	BRKR AMPS	CIR NO.
1	1	20	LTS, ROOM 116	16		1,380	1,380						SPARE	1	20	2
3			LTS, OFFICES 115A & 115B	4		330		330					SPARE			4
5			LTS, ROOM 115	16		1,380			1,380				SPARE			6
7			SPARE				1,000			1,000			REC, ROOM 117 *			8
9			SPARE					1,000		1,000			REC, ROOM 117 *			10
11			REC, PROJECTOR RM 116		2	360			1,360	1,000			REC, ROOM 117 *			12
13			REC, TABLES, RM 116		4	720	1,550			830			RM 17 EX. FAN *			14
15			REC, TABLES, RM 116		4	720		1,720		1,000			REC, N.W. OUTSIDE *			16
17			REC, TABLES, RM 116		4	720			1,720	1,000			ROOM 116 DESK *			18
19			REC, TABLES, RM 116		4	720	720						SPARE			20
21			REC, TABLES, RM 116		4	720		720					SPARE			22
23			REC, TABLES, RM 116		4	720			720				SPARE			24
25			REC, ROOM 115 *			1,000	1,000						SPARE			26
27			REC, ROOM 115 *			1,000		1,000					SPARE			28
29			FLOOR REC, ROOM 116 *			1,000			1,000				SPARE			30
31			SPARE				0						SPARE			32
33			SPARE					0					SPARE			34
35			SPARE						0				SPARE	1	20	36
37	1	20	SPARE				8,685			8,685			RM 118 MAKE-UP AIR UNIT	3	100+	38
39	2	50	SPARE					8,685		8,685			-	-	-	40
41	-	-	-						8,685	8,685			-	-	-	42
							14,335	13,455	14,865							

TOTAL CONNECTED LOAD: 42,655 VA — 118 AMPS — FEEDER: EXISTING 4 #350 MCM RHW, 3-1/2" C
CALCULATED FEEDER DEMAND, NEC 220: 48,601 VA — 135 AMPS

NOTES:
* EXISTING CIRCUIT TO REMAIN - FIELD VERIFY AND INCLUDE ON NEW TYPEWRITTEN CIRCUIT INDEX. LOAD IS ESTIMATED.
+ PROVIDE NEW CUTLER HAMMER TYPE 'CHB' BRANCH CIRCUIT BREAKER, RATING AS INDICATED, TO REPLACE EXISTING SPARE CIRCUIT BREAKERS.

EXISTING PANEL 'D'
WESTINGHOUSE TYPE 'NGC'
3 POLE 225 AMP MAIN LUGS

10,000 A.I.C. FULLY RATED
120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED

CIR NO.	P	BRKR AMPS	DESCRIPTION	NO. LTS	NO. REC	CIRCUIT LOAD	PHASE LOAD - VA PHASE A	PHASE B	PHASE C	CIRCUIT LOAD	NO. REC	NO. LTS	DESCRIPTION	BRKR P	BRKR AMPS	CIR NO.
1	1	20	LTS, RM 135	4		420	1,320			900	5		REC, RM 136 WALL & DESK	1	20	2
3			LTS, ROOM 136	16		1,380		1,560		180	1		REC, RM 135 SD. WALL			4
5			LTS, ROOM 137	16		1,380			1,920	540	3		REC, RM 136 SD. COUNTER			6
7			SPARE				540			540	3		REC, RM 136 SD. COUNTER			8
9			REC, RM 135 EAST COUNTER		2	360		720		360	2		REC, RM 136 EAST WALL			10
11			REC, RM 135 EAST COUNTER		2	360			720	360	2		REC, RM 136 EAST WALL			12
13			REC, RM 135 EAST COUNTER		1	180	900			720	4		REC, RM 136 TABLES			14
15			REC, RM 135 WEST COUNTER		2	360		1,080		720	4		REC, RM 136 TABLES			16
17			REC, RM 135 WEST COUNTER		2	360			1,080	720	4		REC, RM 136 TABLES			18
19			REC, RM 135 WEST COUNTER		1	180	900			720	4		REC, RM 136 TABLES			20
21			RM 137 PLUGS *			1,000		1,720		720	4		REC, RM 136 TABLES			22
23			RM 137 PLUGS *			1,000			1,720	720	4		REC, RM 136 TABLES			24
25			RM 137 PLUGS *			1,000	1,540			540	3		REC, RM 136 NO. COUNTER			26
27			RM 137 PLUGS *			1,000		1,540		540	3		REC, RM 136 NO. COUNTER			28
29	1	20	RM 137 PLUGS *			1,000			1,180	180	1		REC, RM 136 CLG PROJECTOR			30
31	3	100+	NEW PANEL 'D2'			7,140	8,315			1,175			FAN PWRD VAV BOX RM 136			32
33	-	-	-			7,415		7,615		200			SPRINKLER CLOCK *			34
35	-	-	-			6,215			6,215				SPARE	1	20	36
37	2	70	SPARE				0									
	-	-	(SUBFEED BREAKER)					0								
									0							
							13,515	14,235	12,835							

TOTAL CONNECTED LOAD: 40,585 VA — 113 AMPS — FEEDER: 4 #1/0 RHW, 2" C
CALCULATED FEEDER DEMAND, NEC 220: 31,610 VA — 88 AMPS

NOTES:
* EXISTING CIRCUIT TO REMAIN - FIELD VERIFY AND INCLUDE ON NEW TYPEWRITTEN CIRCUIT INDEX. LOAD IS ESTIMATED.
+ PROVIDE NEW CUTLER HAMMER TYPE 'QC' BRANCH CIRCUIT BREAKER, RATING AS INDICATED, TO REPLACE EXISTING SPARE CIRCUIT BREAKERS.

NEW PANEL 'D2' *
TYPE 'PRL1a'
3 POLE 100 AMP MAIN LUGS

10,000 A.I.C. FULLY RATED
120/208 VOLT, 3 PHASE, 4 WIRE
SURFACE MOUNTED

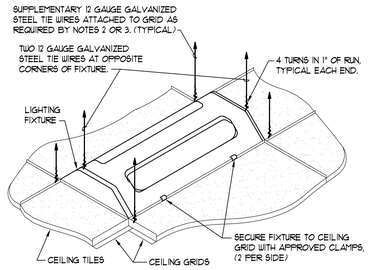
CIR NO.	P	BRKR AMPS	DESCRIPTION	NO. LTS	NO. REC	CIRCUIT LOAD	PHASE LOAD - VA PHASE A	PHASE B	PHASE C	CIRCUIT LOAD	NO. REC	NO. LTS	DESCRIPTION	BRKR P	BRKR AMPS	CIR NO.
1	1	20	LTS, ROOM 129	16		1,380	1,380						SPARE	1	20	2
3			LTS, ROOM 127	16		1,380		1,380					SPARE			4
5			SPARE						540	540	3		REC, RM 127 EAST COUNTER			6
7			REC, 129 WALL & DESK		5	900	1,440			540	3		REC, RM 127 WALL & DESK			8
9			SPARE					360		360	2		REC, RM 127 SD. COUNTER			10
11			SPARE						540	540	3		REC, RM 127 SD. COUNTER			12
13			REC, RM 129 TABLES		4	720	1,440			720	4		REC, RM 127 TABLES			14
15			REC, RM 129 TABLES		4	720		1,440		720	4		REC, RM 127 TABLES			16
17			REC, RM 129 TABLES		4	720			1,440	720	4		REC, RM 127 TABLES			18
19			REC, RM 129 TABLES		4	720	1,440			720	4		REC, RM 127 TABLES			20
21			REC, RM 129 TABLES		4	720		1,440		720	4		REC, RM 127 TABLES			22
23			REC, RM 129 TABLES		4	720			1,440	720	4		REC, RM 127 TABLES			24
25			REC, RM 129 SD. COUNTER		3	540	900			360	2		REC, RM 127 NO. COUNTER			26
27			REC, RM 129 SD. COUNTER		3	540		1,080		540	3		REC, RM 127 NO. COUNTER			28
29			REC, RM 129 WEST WALL		2	360			540	180	1		REC, RM 127 CLG PROJECTOR			30
31			REC, RM 129 WEST WALL		2	360	360						SPARE			32
33			REC, RM 129 NO. COUNTER		3	540		540					SPARE			34
35			REC, RM 129 NO. COUNTER		3	540			540				SPARE			36
37			REC, RM 129 CLG PROJECTOR		1	180	180						SPARE			38
39			SPARE					1,175		1,175			FAN PWRD VAV BOX RM 127			40
41	1	20	FAN PWRD VAV BOX RM 129			1,175			1,175				SPARE	1	20	42
							7,140	7,415	6,215							

TOTAL CONNECTED LOAD: 20,770 VA — 58 AMPS — FEEDER: 4 #2, 1 #8 GND, 1-1/4" C
CALCULATED FEEDER DEMAND, NEC 220: 18,630 VA — 52 AMPS

NOTES:
* CONNECT NEW PANEL 'D2' TO NEW 3P-100A BREAKER IN EXISTING PANEL 'D' WITH 4 #2, 1 #8 GND, 1-1/4" CONDUIT. SEE PANEL 'D' SCHEDULE ABOVE.

SYMBOL LIST

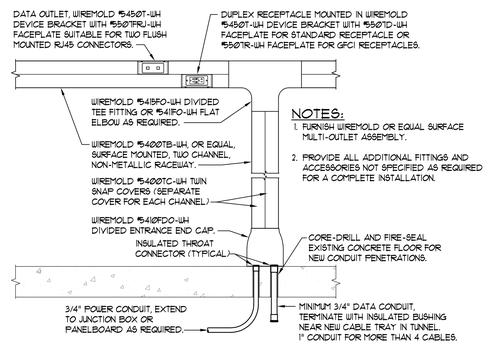
SYMBOL	DESCRIPTION
	NEW CEILING MOUNTED FIXTURE
	NEW WALL MOUNTED FIXTURE
	NEW RECESSED FIXTURE
	NEW FLUORESCENT FIXTURE
EM	NEW FIXTURE CONNECTED TO UNSWITCHED EMERGENCY BRANCH CIRCUIT
	NEW EXIT LIGHT WITH ARROW INDICATING DIRECTION OF EXIT
	EXISTING CEILING MOUNTED FIXTURE
	EXISTING WALL MOUNTED FIXTURE
	EXISTING RECESSED FIXTURE
	EXISTING FLUORESCENT FIXTURE
	EXISTING EXIT LIGHT
EM	EXISTING FIXTURE CONNECTED TO UNSWITCHED EMERGENCY BRANCH CIRCUIT
a	FIXTURE WITH LETTER INDICATING CONTROLLING SWITCH
$	NEW SINGLE POLE SWITCH
$3	NEW THREE WAY SWITCH
$M	NEW OCCUPANCY SENSOR WALL SWITCH
$M2	NEW DUAL LEVEL OCCUPANCY SENSOR WALL SWITCH
	NEW CEILING MOUNTED OCCUPANCY SENSOR
PC	NEW OCCUPANCY SENSOR PHOTOCELL (INDOOR)
SP	NEW OCCUPANCY SENSOR SWITCHPACK
$E	EXISTING SINGLE POLE SWITCH
$3E	EXISTING THREE WAY SWITCH
$a	SWITCH WITH LETTER INDICATING CONTROLLED FIXTURES
J	NEW JUNCTION BOX
J	EXISTING JUNCTION BOX
	NEW DUPLEX RECEPTACLE
	NEW DOUBLE DUPLEX RECEPTACLE
	NEW MULTI-OUTLET ASSEMBLY INDICATING DEVICE LOCATIONS
	EXISTING DUPLEX RECEPTACLE
	EXISTING DOUBLE DUPLEX RECEPTACLE
	EXISTING FLOOR OUTLET
	EXISTING SURFACE MOUNTED MULTI-OUTLET ASSEMBLY
	EXISTING EXISTING CLOCK SYSTEM CLOCK
GFI	RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	NEW TELEPHONE/DATA OUTLET
2	NEW DATA OUTLET INDICATING QUANTITY OF PORTS IF MORE THAN 1
D	NEW DATA OUTLET PULLBOX, FLUSH MOUNTED
	NEW COMMUNICATION VERTICAL DROP POLE
	EXISTING TELEPHONE/DATA OUTLET
P	EXISTING CEILING MOUNTED PROJECTOR
	EXISTING SLIDE PROJECTOR CONTROL RECEPTACLE
	NEW POWER PANELBOARD, 120/208 VOLT, 3 PHASE
	EXISTING POWER PANELBOARD, 120/208 VOLT, 3 PHASE
A-13b	NEW 3 PHASE, 4 WIRE HOMERUN INDICATING PANEL AND CIRCUIT NUMBERS
	NEW BRANCH CIRCUIT CONCEALED IN WALL, CEILING, OR FLOOR
	NEW BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
	EXISTING BRANCH CIRCUIT
	EXISTING MOTOR
	EXISTING SAFETY SWITCH
	NEW MOTOR
	NEW COMBINATION STARTER WITH MCP DISCONNECT
F	NEW SAFETY SWITCH, 'F' INDICATES FUSED, 'NF' INDICATES NON-FUSED
F-2	FIXTURE SCHEDULE SYMBOL
1	KEYED NOTE SYMBOL
Ø2	ROOM NUMBER
D5 E-601	DETAIL NUMBER REFERENCING SHEET COORDINATES
	SHEET ON WHICH DETAIL OR SECTION IS SHOWN
WP	INDICATES ITEM IN WEATHERPROOF (NEMA 3R MINIMUM) ENCLOSURE
	RELOCATED FIRE ALARM SYSTEM SMOKE DETECTOR (NEW WHERE INDICATED)
H	RELOCATED FIRE ALARM SYSTEM HEAT DETECTOR
F	RELOCATED FIRE ALARM MANUAL PULL STATION
	RELOCATED FIRE ALARM HORN/STROBE
Bcd	NEW HORN/STROBE INDICATING MINIMUM EFFECTIVE CANDLEPOWER
R	NEW FIRE ALARM SYSTEM FIRE SAFETY FUNCTION POWER RELAY
	EXISTING FIRE ALARM CONTROL PANEL
	EXISTING FIRE ALARM SYSTEM SMOKE DETECTOR
H	EXISTING FIRE ALARM SYSTEM HEAT DETECTOR
F	EXISTING FIRE ALARM MANUAL PULL STATION
	EXISTING FIRE ALARM SYSTEM HORN/STROBE



FIXTURE SUPPORT NOTES:

1. ALL LIGHTING FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100% OF THE LIGHTING FIXTURE WEIGHT ACTING ANY DIRECTION.
2. FOR INTERMEDIATE DUTY CEILING SYSTEM, PROVIDE A SUPPLEMENTARY 12 GAUGE HANGER ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE AS SHOWN ON DETAIL. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.
3. FOR HEAVY DUTY CEILING SYSTEM, SUPPLEMENTARY HANGERS ARE NOT REQUIRED IF A 48" MODULAR HANGER WIRE PATTERN IS USED AND THE LIGHTING FIXTURE IS SUPPORTED FROM MAIN TEES. SUPPLEMENTARY 12 GAUGE HANGERS ARE REQUIRED WHERE THE FIXTURE IS SUPPORTED FROM CROSS TEES WITH LESS CARRYING CAPACITY THAN THE MAIN TEES.
4. LIGHTING FIXTURES WEIGHING LESS THAN 56 LBS. SHALL HAVE, IN ADDITION TO THE REQUIREMENTS OUTLINED ABOVE, TWO 12 GAUGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
5. LIGHTING FIXTURES WEIGHING 56 LBS. OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.
6. PENDANT HUNG LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING 9 GAUGE WIRES OR APPROVED ALTERNATE SUPPORT WITHOUT USING CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
7. COORDINATE SUPPORT REQUIREMENTS AND HANGER WIRE INSTALLATION WITH CEILING CONTRACTOR.

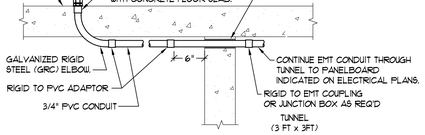
E5 TYPICAL LIGHTING FIXTURE SUPPORT DETAIL
NOT TO SCALE



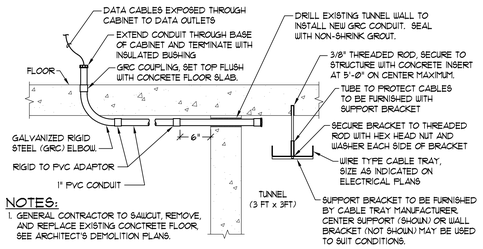
NOTES:
1. FURNISH WIREMOLD OR EQUAL SURFACE MULTI-OUTLET ASSEMBLY.
2. PROVIDE ALL ADDITIONAL FITTINGS AND ACCESSORIES NOT SPECIFIED AS REQUIRED FOR A COMPLETE INSTALLATION.

D5 MULTI-OUTLET ASSEMBLY DETAIL
SCALE 1" = 1'-Ø"

NOTES:
1. GENERAL CONTRACTOR TO SAWCUT, REMOVE, AND REPLACE EXISTING CONCRETE FLOOR. SEE ARCHITECT'S DEMOLITION PLANS.



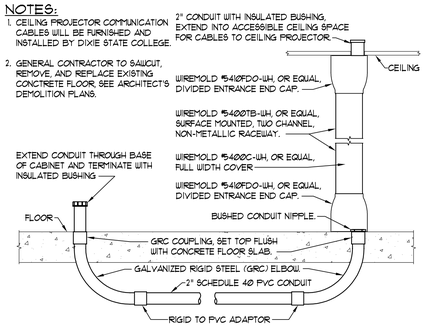
C5 POWER CONDUIT DETAIL
SCALE 1" = 1'-Ø"



NOTES:
1. GENERAL CONTRACTOR TO SAWCUT, REMOVE, AND REPLACE EXISTING CONCRETE FLOOR. SEE ARCHITECT'S DEMOLITION PLANS.

B5 DATA CONDUIT DETAIL
SCALE 1" = 1'-Ø"

NOTES:
1. CEILING PROJECTOR COMMUNICATION CABLES WILL BE FURNISHED AND INSTALLED BY DIXIE STATE COLLEGE.
2. GENERAL CONTRACTOR TO SAWCUT, REMOVE, AND REPLACE EXISTING CONCRETE FLOOR. SEE ARCHITECT'S DEMOLITION PLANS.



A5 PROJECTOR RACEWAY DETAIL
SCALE 1" = 1'-Ø"

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

DATE:	30 JANUARY 2008
AGENCY PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	0730 E-601.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

SYMBOL LIST, SCHEDULES AND DETAILS

E-601

SHEET 8 OF 9 (ELECT.)

KEYED NOTES:

1. RELOCATE EXISTING SMOKE AND HEAT DETECTORS FROM EXISTING CEILING TO NEW CEILING AND RECONNECT TO EXISTING INITIATING DEVICE CIRCUIT. PROVIDE TEMPORARY SUPPORT AND CONNECTIONS AS REQUIRED TO KEEP EXISTING DETECTORS AND CIRCUITS OPERATIONAL THROUGHOUT DEMOLITION AND CONSTRUCTION. SEE GENERAL NOTE 1, THIS SHEET.
2. REMOVE EXISTING HEAT DETECTOR FROM EXISTING ROOM TO BE REMOVED. REMOVE ALL ABANDONED WIRING, CONDUIT, BOXES, ETC.. RECONNECT EXISTING INITIATING DEVICE CIRCUIT.
3. REPLACE EXISTING SURFACE RACEWAY WITH NEW CONDUIT CONCEALED ABOVE NEW CEILING AND RECONNECT EXISTING CIRCUITS.
4. EXISTING HORN/STROBE TO REMAIN. REPLACE EXISTING SURFACE RACEWAY ON EXISTING CEILING WITH NEW CONDUIT CONCEALED ABOVE NEW CEILING.
5. RELOCATE EXISTING HORN/STROBE TO 80" ABOVE FINISHED FLOOR AND RECONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT. USE EXISTING SURFACE RACEWAY FROM HORN/STROBE TO CEILING. PROVIDE NEW CONDUIT CONCEALED ABOVE NEW CEILING.
6. EXISTING HORN/STROBE TO REMAIN. RECONNECT EXISTING CIRCUIT AS REQUIRED.
7. PROVIDE NEW HORN/STROBE SURFACE MOUNTED ON EXISTING WALL AND CONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT. PROVIDE NEW SURFACE RACEWAY FROM HORN/STROBE TO CEILING TO MATCH INSTALLATION OF OTHER HORN/STROBES.
8. RELOCATE EXISTING CEILING MOUNTED HORN/STROBE FROM EXISTING CEILING TO NEW CEILING AND RECONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT. REPLACE EXISTING SURFACE RACEWAY ON EXISTING CEILING WITH NEW CONDUIT CONCEALED ABOVE NEW CEILING.
9. EXISTING CEILING MOUNTED HORN/STROBE TO REMAIN, SHOWN FOR REFERENCE ONLY.
10. REMOVE AND REPLACE EXISTING DETECTORS AND HORN/STROBES AS REQUIRED TO ALLOW REPLACEMENT OF EXISTING CEILING TILE EXISTING CEILING TO REMAIN.
11. REPLACE EXISTING SURFACE RACEWAY ON EXISTING CEILING WITH NEW CONDUIT CONCEALED ABOVE EXISTING CEILING AND RECONNECT EXISTING CIRCUIT. EXISTING SURFACE RACEWAY FROM PULL STATION TO CEILING TO REMAIN.

KEYED NOTES:

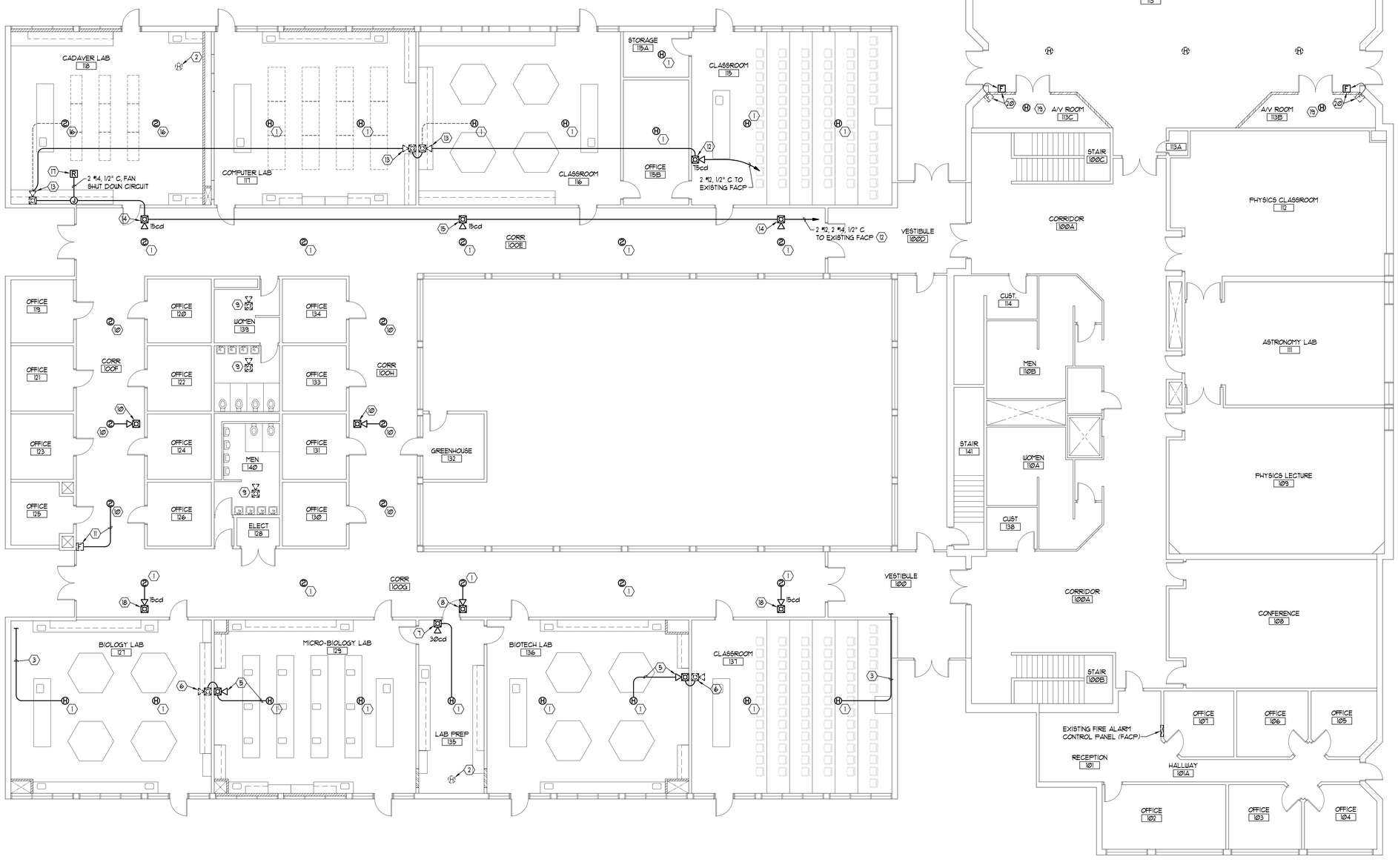
12. PROVIDE NEW HORN/STROBE SURFACE MOUNTED ON EXISTING WALL AND PROVIDE NEW NOTIFICATION APPLIANCE CIRCUIT COMPLETE TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE NEW SURFACE RACEWAY FROM HORN/STROBE TO CEILING TO MATCH INSTALLATION OF OTHER HORN/STROBES. FIELD COORDINATE LOCATION WITH OWNER SO THAT HORN/STROBE WILL NOT BE OBSTRUCTED BY PROJECTION SCREEN OR SIMILAR CLASSROOM EQUIPMENT.
13. EXISTING WALL MOUNT HORN/STROBE TO REMAIN. REMOVE EXISTING NOTIFICATION APPLIANCE CIRCUIT AND CONNECT TO NEW NOTIFICATION APPLIANCE CIRCUIT AS SHOWN.
14. RELOCATE EXISTING CEILING MOUNTED HORN/STROBE FROM EXISTING CEILING TO NEW CEILING. REMOVE EXISTING NOTIFICATION APPLIANCE CIRCUIT AND CONNECT TO NEW NOTIFICATION APPLIANCE CIRCUIT AS SHOWN.
15. PROVIDE NEW CEILING MOUNTED HORN/STROBE IN NEW CEILING AND CONNECT TO NEW NOTIFICATION APPLIANCE CIRCUIT AS SHOWN.
16. REPLACE EXISTING HEAT DETECTORS IN CADAVER LAB 118 WITH NEW SMOKE DETECTORS TO PROVIDE SMOKE DETECTION FOR NEW MAKE-UP AIR UNIT MA-1 AS ALLOWED BY IMC SECTION 606.2.1, EXCEPTION.
17. PROVIDE NEW FAN SHUT DOWN RELAY FOR NEW MAKE-UP AIR UNIT MA-1 AND CONNECT TO MA-1 CONTROL CIRCUIT TO SHUT DOWN AIR SUPPLY FAN UPON GENERAL FIRE ALARM. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
18. REPLACE EXISTING CEILING MOUNTED HORN/STROBE WITH NEW ADA COMPLIANT HORN/STROBE AND CONNECT TO EXISTING NOTIFICATION APPLIANCE CIRCUIT. REPLACE EXISTING SURFACE RACEWAY ON EXISTING CEILING WITH NEW CONDUIT CONCEALED ABOVE NEW CEILING.
19. PROVIDE NEW HEAT DETECTOR IN NEW STORAGE ROOMS 113B AND 113C AND CONNECT TO EXISTING INITIATING DEVICE CIRCUIT IN ROOM 113.
20. RELOCATE EXISTING FIRE ALARM PULL STATION FROM EXISTING WALL TO NEW WALL AND RECONNECT EXISTING INITIATING DEVICE CIRCUIT. PROVIDE NEW FLUSH MOUNTED OUTLET BOX AND CONDUIT CONCEALED IN NEW WALL. REMOVE EXISTING SURFACE OUTLET BOX AND SURFACE METAL RACEWAY SYSTEM TO ABOVE CEILING. REPAIR WALL AND CEILING AS REQUIRED TO MATCH SURROUNDING SURFACES.

GENERAL NOTES:

1. THE EXISTING BUILDING IS PROTECTED THROUGHOUT BY AN AUTOMATIC FIRE ALARM SYSTEM WHICH IS TO REMAIN OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD.
2. SUBMIT REQUESTS FOR FIRE ALARM SYSTEM OUTAGES TO THE DIXIE STATE COLLEGE FACILITIES PROJECT MANAGER NOT LESS THAN 7 DAYS PRIOR TO ANY PROPOSED FIRE ALARM OUTAGES.
3. IMMEDIATELY NOTIFY THE FACILITIES PROJECT MANAGER IF THE FIRE ALARM IS UNINTENTIONALLY DISABLED AND IMMEDIATELY MAKE REPAIRS TO RESTORE THE SYSTEM TO AN OPERATIONAL CONDITION.
4. THE CONTRACTOR SHALL MAINTAIN A FIRE WATCH DURING ALL FIRE ALARM SYSTEM OUTAGES IN ACCORDANCE WITH IFC SECTION 901.7.
5. ANY WORK PERFORMED ON THE FIRE ALARM SYSTEM SHALL BE APPROVED IN ADVANCE BY THE FIRE ALARM SYSTEM FACTORY REPRESENTIVE. CONTACT HONEYWELL AT (801) 978-1136.
6. PROTECT EXISTING SMOKE AND HEAT DETECTORS IN AREAS OF CONSTRUCTION FROM EXCESSIVE DUST ACCUMULATION BY MEANS OF TEMPORARY DUST COVERS DURING DUST PRODUCING WORK OPERATIONS. REMOVE DUST COVERS IMMEDIATELY UPON COMPLETION OF DUST PRODUCING WORK.
7. CLEAN ALL EXISTING AND RELOCATED SMOKE AND HEAT DETECTORS AFFECTED BY CONSTRUCTION IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS UPON COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION.

GENERAL NOTES:

8. TEST ALL SMOKE AND HEAT DETECTORS AFTER CLEANING AND PRIOR TO SUBSTANTIAL COMPLETION. TESTING SHALL BE PERFORMED BY A FACTORY AUTHORIZED AND TRAINED TECHNICIAN OF THE FIRE ALARM SYSTEM MANUFACTURER. CONTACT HONEYWELL AT (801) 978-1136.
9. TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGE TO THE EXISTING BUILDING. REPAIR ALL DAMAGE INCURRED BY DEMOLITION AND NEW CONSTRUCTION TO EXACTLY MATCH SURROUNDING SURFACES AND/OR CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER. COORDINATE REPAIRS WITH THE GENERAL CONTRACTOR.



A3 1ST FLOOR FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"
0 4' 8' 16'

N

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SCIENCE BUILDING REMODEL

DIXIE STATE COLLEGE

ST. GEORGE, UTAH

MARK	DATE	DESCRIPTION

DATE:	30 JANUARY 2008
AGENCY PROJECT NO:	07043640
HFSA PROJECT NO:	0730.01
CAD DWG FILE NO:	0730 E-101.dwg
DRAWN BY:	W.B.G.
CHECKED BY:	R.G.K.
DESIGNED BY:	W.B.G.
DWG TYPE:	ELECTRICAL
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

1ST FLOOR FIRE ALARM PLAN

FA101

SHEET 9 OF 9 (ELECT.)